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Micro-D Connectors

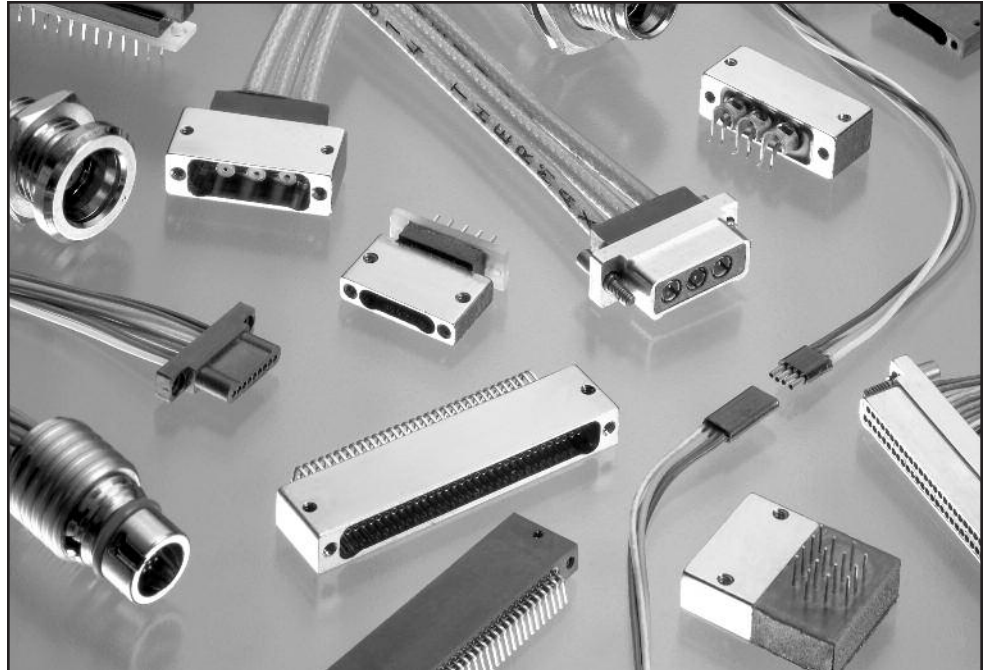
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NANONICS Nanominiature Connectors Introduction



Nanominiature connectors constitute a family of inter-connect devices with center to center contact spacing of .025". In comparison to other connector families, they are often thought of as the smallest practical connector system for separable interfaces. Despite being smaller, these nanominiature connectors are tested with a few size-related modifications per the guidelines of MIL-DTL-83513 (written for .050" microminiature connectors). Nanominiature connectors combine their appealing size and weight with desired performance attributes such as high reliability, low contact resistance and wide operating temperature range, making

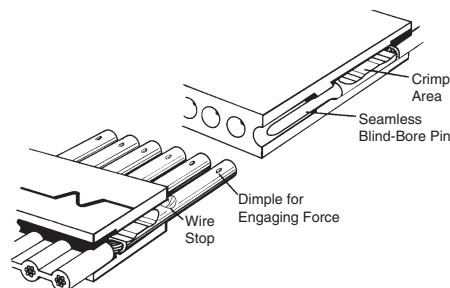
them among the smallest and toughest connectors available to designers.

The Contact System

NANONICS connectors utilize the same contact system throughout the entire product family. This contact system uses a "spring socket" as opposed to most connector designs, which use a "spring pin". In this design, the socket member of the contact pair employs a dimple located inside the contact tube. When the pin is engaged with this socket, the dimple creates the desired spring action by forcing the pin to offset to the opposite side of the socket tube. The

result is a gold-on-gold mating area covering a minimum of 180° of the contact surface. This also creates a desirable mating force of no greater than 6 ounces per contact and a resistance of .003 ~ .008 ohms. This type of contact system begins with a pre-plated BeCu alloy material that is then formed to yield a rugged, seamless contact. Both the blind-bore seamless pin and the seamless one piece socket have a burnished gold finish on both the inside and outside surfaces. This gold finish provides contact integrity for superior reliability and environmental performance.

Contact Configuration



NANONICS Nanominiature Connectors

Technical and Performance Data

Electrical

Contact Resistance — .003 - .008 ohms

Current Rating — 1 amp max. per contact

Dielectric Withstanding Voltage — Volts RMS 60 Hz at room ambient conditions. At sea level 500V. At 70,000 ft. 150V.

Insulation Resistance — 5000 megohms min. (@ 500 VDC) at room ambient conditions.

Magnetic Permeability — 2 mu max.

Mechanical

Contact Engagement & Separation — Engaging force is 6.0 oz. max. Separation force is 0.5 oz. min.

Mating Force Maximum — Calculated as 10 oz. multiplied by the number of contacts.

Environmental

Temperature Range — -200° C to +200° C

Shock — No discontinuity in excess of 1 μ sec. when tested in accordance with MIL-STD-1344, Method 2004.1, Test Condition E.

Vibration — No discontinuity in excess of 1 μ sec. when tested in accordance with MIL-STD-1344, Method 2005.1, Test Condition IV.

Solderability — Connectors shall meet the test requirements of MIL-STD-202, Method 208.

Durability — No mechanical or electrical defects detrimental to the function of the connectors after 500 cycles of mating and unmating, without the use of hardware.

Humidity — After exposure to humidity as specified by MIL-STD-1344, Method 1002.2, Type II, IR shall be 1 megohm min. (@ 100 VDC) within 2 hours of conditioning and 1000 megohms min. (@ 100 VDC) after 24 hours of conditioning.

Salt Spray — Connectors shall meet the performance requirements of contact resistance, mating and unmating forces, and contact retention after being subjected to the 48 hour 5 % solution salt spray test per MIL-STD-1344, Method 1001, Condition B.

Fluid Immersion — Unmated connectors after being fully immersed in one of the following fluids, for the prescribed time, will mate at a force of 10 oz. multiplied by the number of contacts or less: Perchloroethylene, 2 hours; Lubricating oil per MIL-L-23699, 20 hours.

Crimp Tensile Strength — (Unassembled contacts with crimped stranded wire terminations) Wires will not pull out of the contacts when the following axial load is applied: #30 AWG, 2 lbs.

Thermal Vacuum Outgassing — Connectors shall have a maximum total mass loss (TML) of 1.0 % of the original specimen mass and a maximum collected volatile condensable materials (CVCN) content of 0.1 % of the original specimen mass when tested in accordance with SP-R-0022A.

Material and Finish

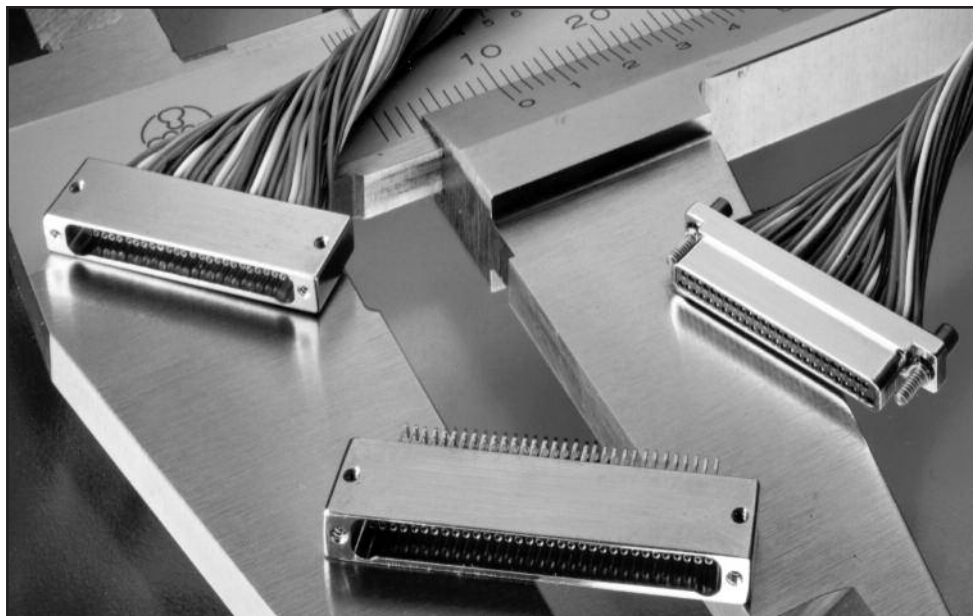
Contacts — BeCu alloy plated with gold per MIL-G-45204 Type II over nickel per QQ-N-290.

Plastic Insulators and Shells — 30% glassed filled Liquid Crystal Polymer (LCP).

Metal Shells — 6061-T6 Aluminum with electroless nickel plating per MIL-C-26074. Stainless steel and gold plated shells are also available.

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Nanominiature and Microminiature Connectors

NANONICS DUALOBE Rectangular Connectors Introduction

NANONICS rectangular connectors have earned the distinction of being the most popular and widely utilized style of Nano connectors. These connectors incorporate the DUALOBE polarization scheme. This polarization scheme negates the need for mating guide pins and does not increase the package size. The DUALOBE series of connectors are available in both machined aluminum and molded plastic shells, both in one and two row connector housings. Single row configurations commonly have standard pin counts from 5 to 51, while the higher density two row configurations have pin counts from 9 to 65. These connectors can be terminated in many different ways. Standard configurations include wires, surface mount, thru-hole, solder

cup, "duckbill", and panel mount. Wired harness assemblies and custom configurations can also be accommodated. Such custom configurations include filtered, hermetic, environmentally sealed, and blind mate connectors.

This family of connectors is designed to meet the requirements of MIL-DTL-83513, with a few size related modifications. Designed primarily for the military and aerospace industry, the DUALOBE series is especially well suited when high reliability, coupled with reduced size and weight, are serious design parameters. A clear example of this is the use of NANONICS connectors in such applications as smart munitions, missile defense, aircraft communications, and UAV's. In addition to

the above applications, with the wide temperature range of the DUALOBE connector (-200°C to +200°C), the space and petroleum industries have also found many uses for this connector. The performance and reliability at cryogenic temperatures, along with the low outgassing material properties, has led to an increased usage in space applications. Such applications include nitrogen-cooled optics, low and high earth orbiting satellites, telescopes, deep space probes, orbiters, and rovers. On the opposite end of the spectrum, the petroleum exploration industry utilizes these connectors for their performance and reliability in downhole environments at temperatures exceeding 175°C.

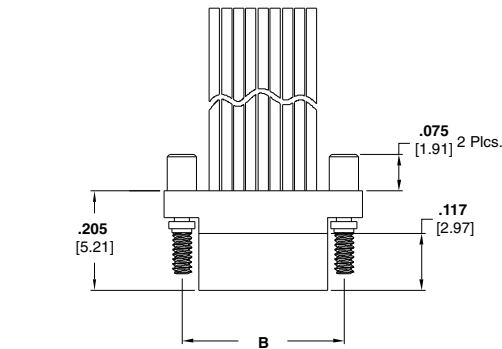
NANONICS Wired Connectors — Single Row, Flying Leads



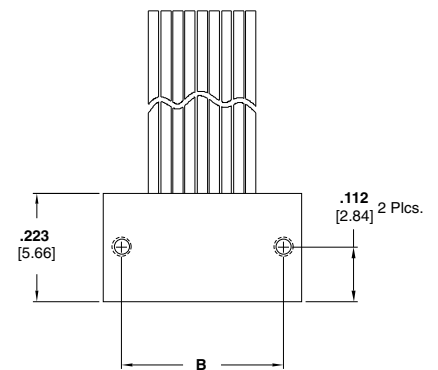
Plug



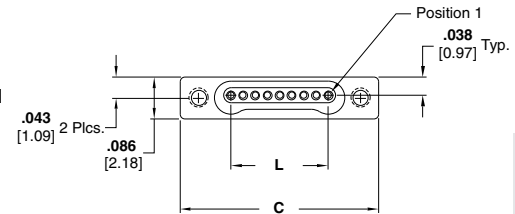
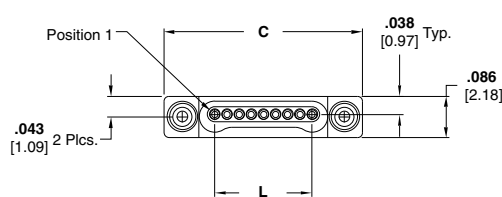
Receptacle



Plug with Flying Leads
Drawing Number 1589455



Receptacle with Flying Leads
Drawing Number 1589457



Product Facts

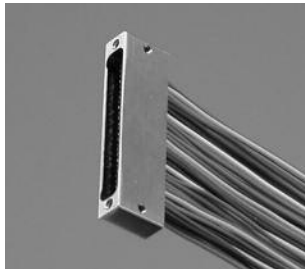
- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Factory wired to your specifications
- Contact TE Connectivity for custom configurations

Size	Dimensions		
	B	C	L
5	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	1.033 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

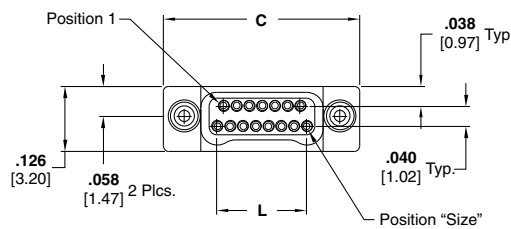
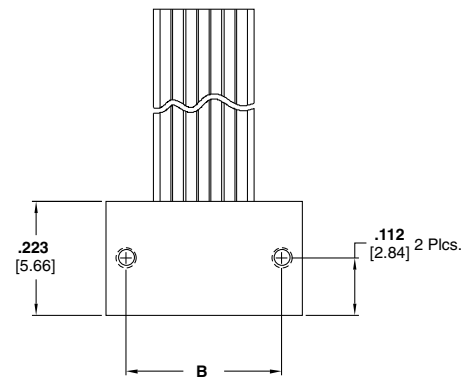
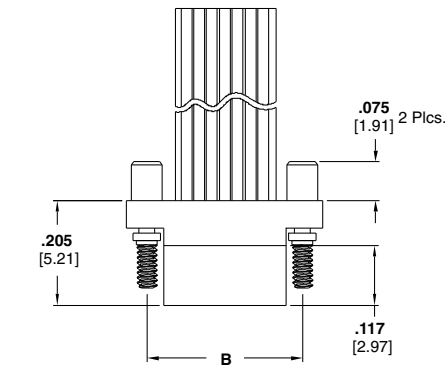
NANONICS Wired Connectors — Two Row, Flying Leads



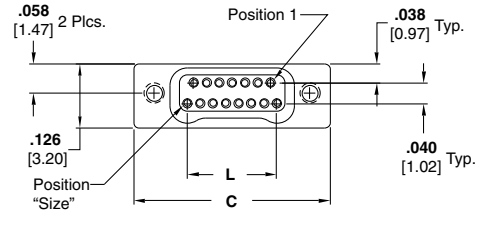
Plug



Receptacle



Plug with Flying Leads
Drawing Number 1589472



Receptacle with Flying Leads
Drawing Number 1589476

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Factory wired to your specifications
- Contact TE Connectivity for custom configurations

Size	Dimensions		
	B	C	L
9	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

Part Numbering Guideline for NANONICS Wired Connectors

DUALOBE Connectors - Wire Terminations

Class	S	X	X	XXX	XX	X	XX	XXX	X	Threads/Jackscrew
S DUALOBE										Threads (Receptacles Only) N Thread for 1.0 mm Jackscrews Q Thread for 1.2 mm Jackscrews
Rows										Jackscrews (Plugs Only) M 1.0 mm Non Captive Jackscrew N 1.0 mm Captive Jackscrew Q 1.2 mm Captive Jackscrew
S 1 Row										
T 2 Row										
Type										Conductor Length XXX Three numbers only, length is in inches (i.e. 012 = twelve inches) CXX A "C" followed by two numbers, length is in centimeters (i.e. C06 = six centimeters) MX An "M" followed by two numbers, length is in meters (i.e. M02 = two meters)
L LCP (Plastic)										
M Metal (Al, Ni Plate)										
Positions										Conductor Type DX White PTFE DC Color Coded PTFE DM Color Coded PTFE per MIL-STD-681 DT White ETFE M22759/33 GX FEP Ribbon Cable
005 5 Position (single row only)										
009 9 Position										
015 15 Position										
025 25 Position										
037 37 Position										
051 51 Position										
065 65 Position (two row only)										
Configurations										Conductor Size/Strands 0 28 AWG Solid 1 30 AWG Solid 2 30 AWG 7 Strand 3 32 AWG 7 Strand 4 34 AWG 7 Strand
PC Plug										
SC Receptacle										

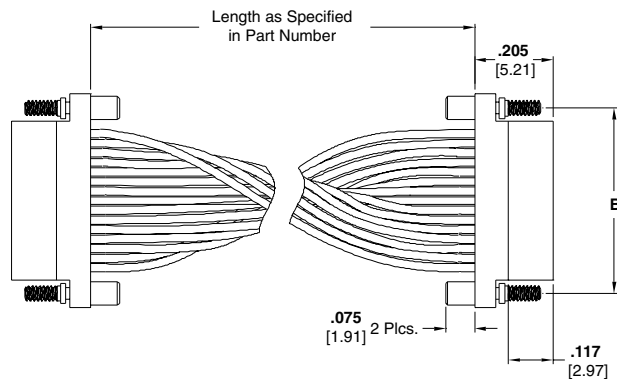
NANONICS Jumper Assembly Connectors — Single Row



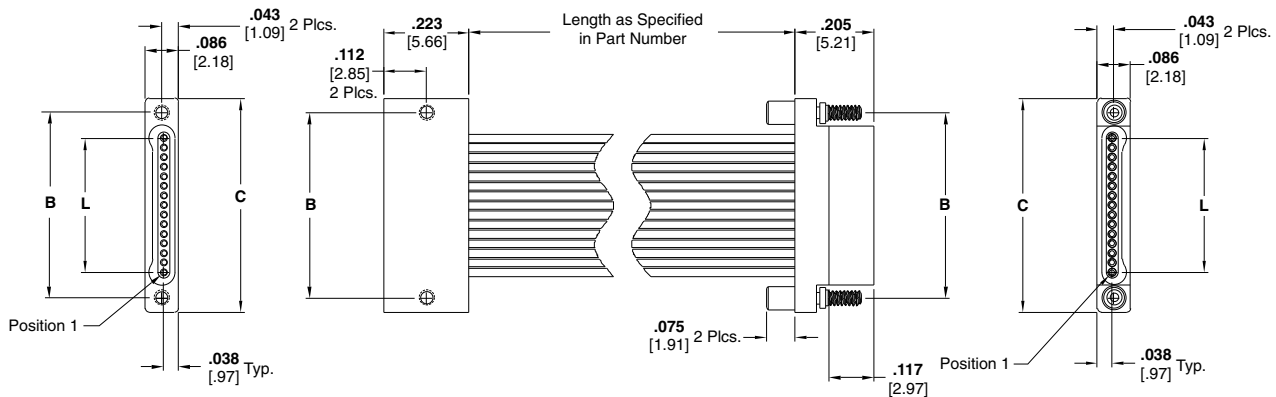
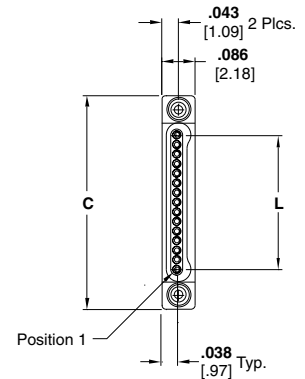
Plug to Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Factory wired to your specifications
- Contact TE Connectivity for custom configurations



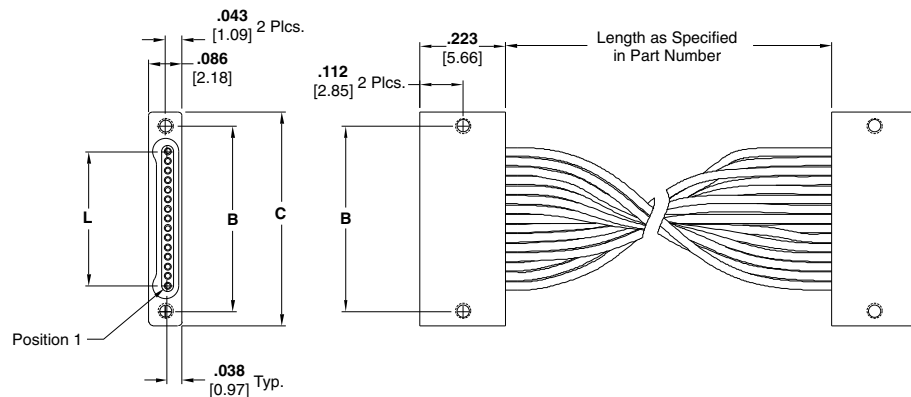
Plug to Plug
Drawing Number 1589735



Plug to Receptacle
Drawing Number 1589736

Size	Dimensions		
	B	C	L
5	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	1.033 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

NANONICS Jumper Assembly Connectors — Single Row (Continued)



Receptacle to Receptacle
Drawing Number 1589803

Size	Dimensions		
	B	C	L
5	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	1.033 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

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Nanominature and Microminature Connectors

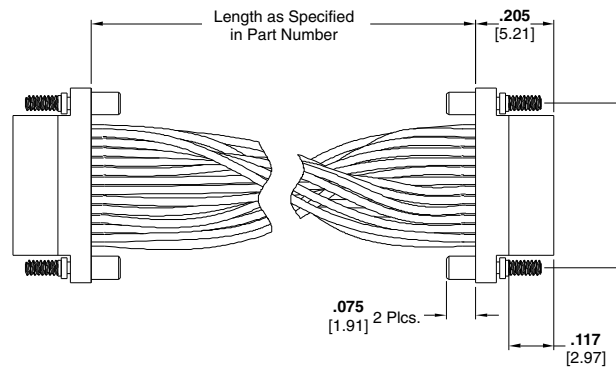
NANONICS Jumper Assembly Connectors — Two Row



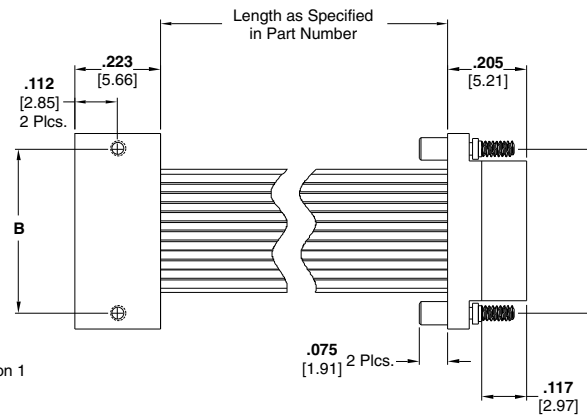
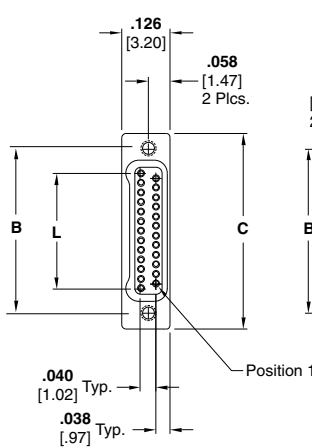
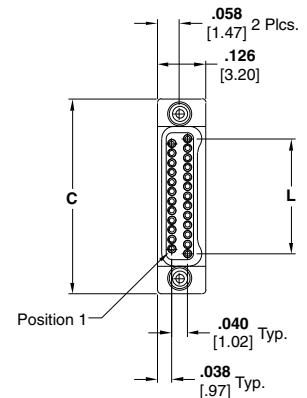
Plug to Receptacle

Product Facts

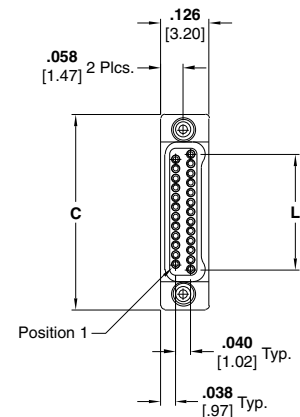
- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Factory wired to your specifications
- Contact TE Connectivity for custom configurations



Plug to Plug
Drawing Number 1589737

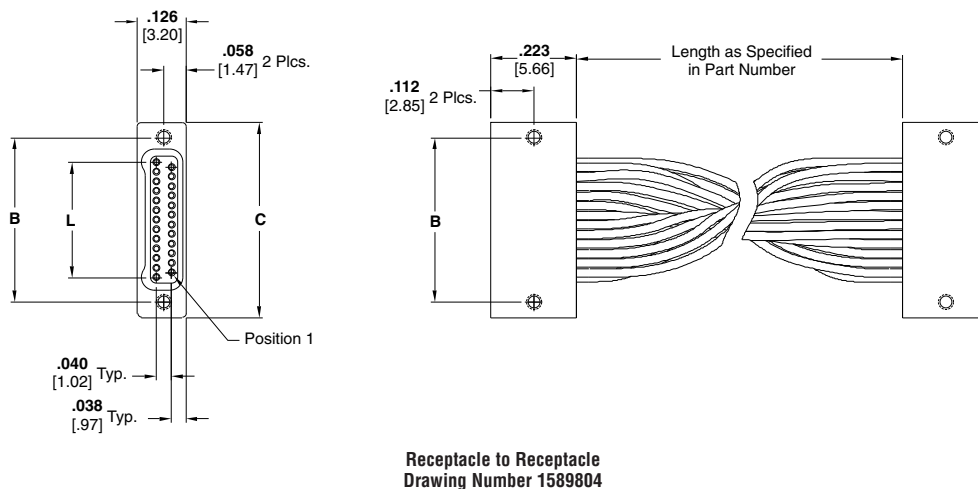


Plug to Receptacle
Drawing Number 1589738



Size	Dimensions		
	B	C	L
9	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

NANONICS Jumper Assembly Connectors — Two Row (Continued)



Size	Dimensions		
	B	C	L
9	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

5

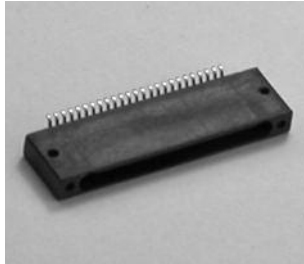
Nanominature and Microminature Connectors

Part Numbering Guideline for NANONICS Jumper Assemblies

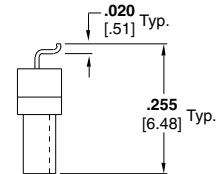
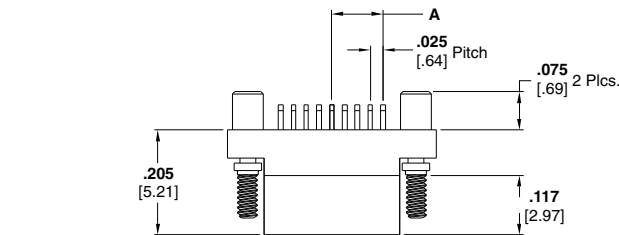
DUALOBE Connectors - Jumper Terminations

Class	J	X	X	XXX	XX	X	XX	XXX	X
J Jumper									
Rows									
S 1 Row									
T 2 Row									
Type									
L LCP (Plastic)									
M Metal (Al, Ni Plate)									
Positions									
005 5 Position (single row only)									
009 9 Position									
015 15 Position									
025 25 Position									
037 37 Position									
051 51 Position									
065 65 Position (two row only)									
Configuration									
PP Plug to Plug, 1 to 1									
PR Plug to Receptacle, 1 to 1									
PD Plug to Plug, low to high in row									
RR Receptacle to Receptacle, 1 to 1									
Threads/Jackscrews									
Threads (Receptacles Only)									
N Thread for 1.0 mm Jackscrews									
Q Thread for 1.2 mm Jackscrews									
Jackscrews (Plugs Only)									
M 1.0 mm Non Captive Jackscrews									
N 1.0 mm Captive Jackscrews									
Q 1.2 mm Captive Jackscrews									
Conductor Length									
XXX Three numbers only, length is in inches (i.e. 012 = twelve inches)									
CXX A "C" followed by two numbers, length is in centimeters (i.e. C06 = 6 centimeters)									
MXX An "M" followed by two numbers, length is in meters (i.e. M02 = 2 meters)									
Conductor Type									
DX White PTFE									
DC Color Coded PTFE									
DM Color Coded PTFE per MIL-STD-681									
DT White ETFE M22759/33									
GX FEP Ribbon Cable									
Conductor Size/Strands									
0 28 AWG Solid									
1 30 AWG Solid									
2 30 AWG 7 Strand									
3 32 AWG 7 Strand									
4 34 AWG 7 Strand									

NANONICS Surface Mount Connectors — Horizontal, Single Row



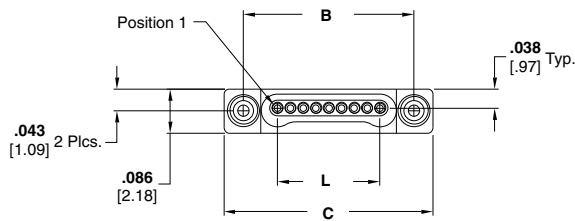
Receptacle



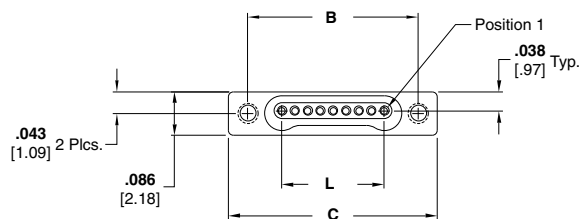
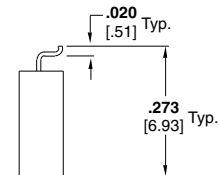
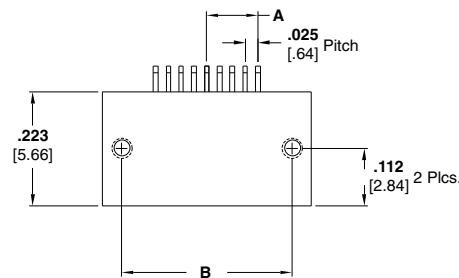
Jack screws Omitted for Clarity

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact TE Connectivity for custom configurations
- Suggested pad layouts are available on the referenced drawings on the TE website



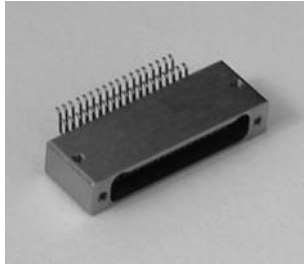
Plug Assembly
Drawing Number 1589460



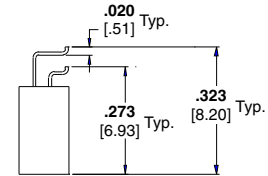
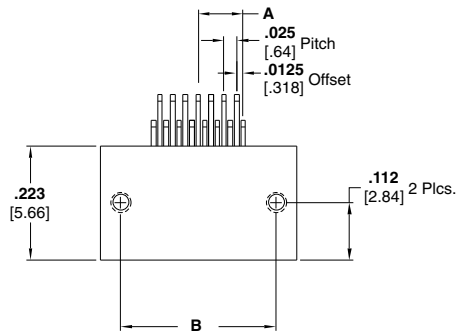
Receptacle Assembly
Drawing Number 1589462

Size	Dimensions			
	A	B	C	L
5	0.050 [1.27]	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.100 [2.54]	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.175 [4.45]	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.300 [7.62]	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	0.450 [11.43]	1.085 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	0.625 [15.88]	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

NANONICS Surface Mount Connectors — Horizontal, Two Row

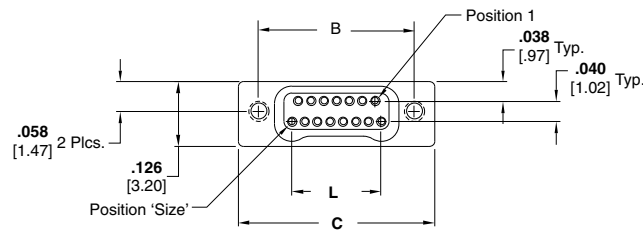


Receptacle

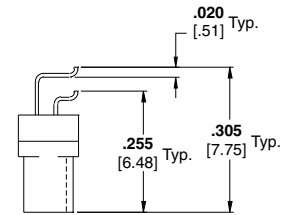
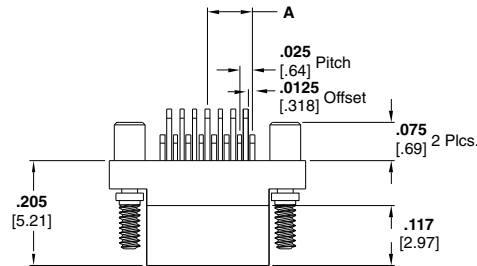


Product Facts

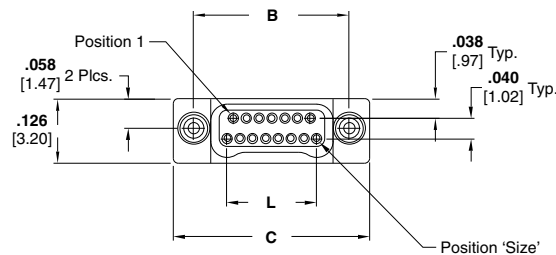
- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations
- Suggested pad layouts are available on the referenced drawings on the TE website



Receptacle Assembly
Drawing Number 1589483



Jackscrews Omitted for Clarity



Plug Assembly
Drawing Number 1589490

Size	Dimensions			
	A	B	C	L
9	0.050 [1.27]	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.075 [2.23]	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.150 [3.81]	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.225 [5.72]	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.313 [7.95]	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.400 [10.16]	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

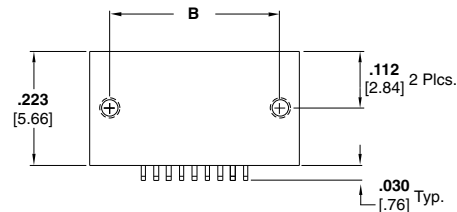
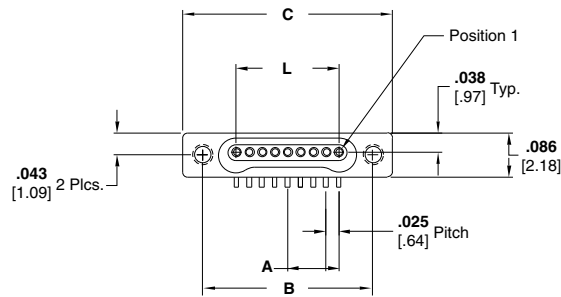
NANONICS Surface Mount Connectors — Vertical, Single Row



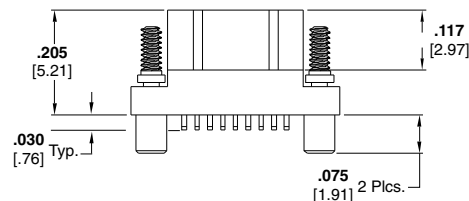
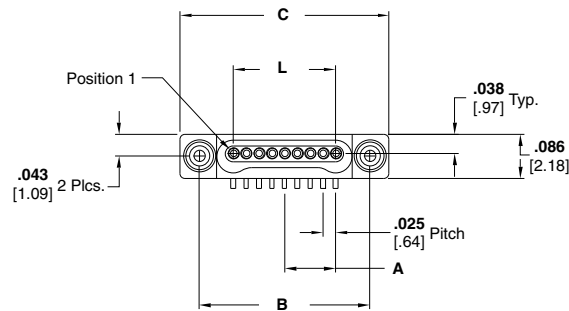
Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact TE Connectivity for custom configurations
- Suggested pad layouts are available on the referenced drawings on the TE website



Receptacle Assembly
Drawing Number 1589463



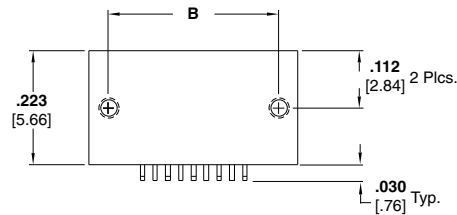
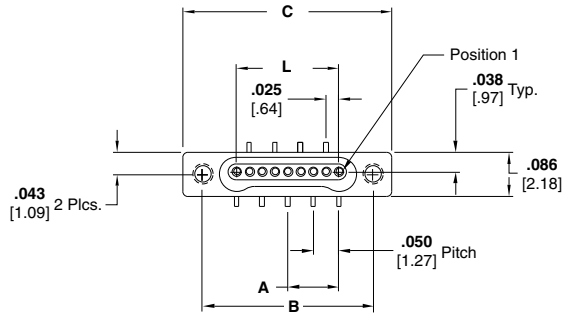
Plug Assembly
Drawing Number 1589465

Size	Dimensions			
	A	B	C	L
5	0.050 [1.27]	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.100 [2.54]	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.175 [4.45]	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.300 [7.62]	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	0.450 [11.43]	1.085 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	0.625 [15.88]	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

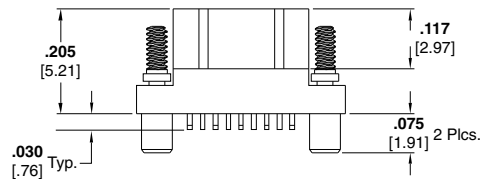
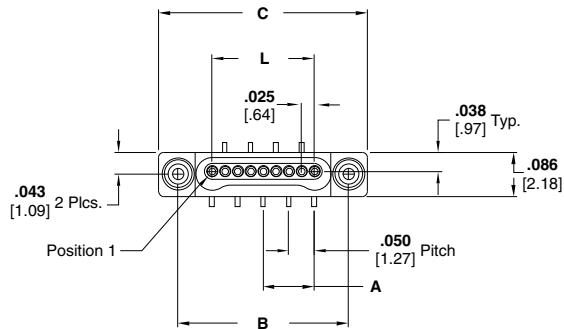
NANONICS Surface Mount Connectors — Vertical, Single Row with Alternating Leads

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact TE Connectivity for custom configurations
- Suggested pad layouts are available on the referenced drawings on the TE website



Receptacle Assembly
Drawing Number 1589464



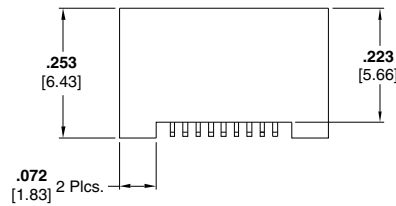
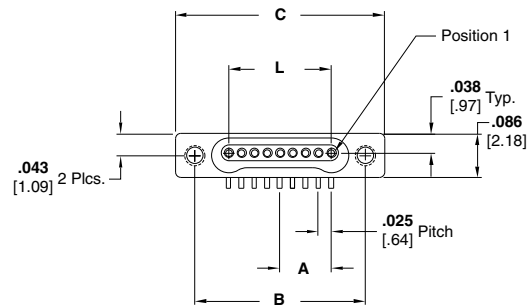
Plug Assembly
Drawing Number 1589466

Size	Dimensions			
	A	B	C	L
5	0.050 [1.27]	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.100 [2.54]	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.175 [4.45]	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.300 [7.62]	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	0.450 [11.43]	1.085 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	0.625 [15.88]	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

NANONICS Surface Mount Connectors — Vertical, Single Row with Integrated Standoffs

Product Facts

- Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact TE Connectivity for custom configurations
- Suggested pad layouts are available on the referenced drawings on the TE website



Receptacle Assembly
Drawing Number 1589467

Size	Dimensions			
	A	B	C	L
5	0.050 [1.27]	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.100 [2.54]	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.175 [4.45]	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.300 [7.62]	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	0.450 [11.43]	1.085 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	0.625 [15.88]	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

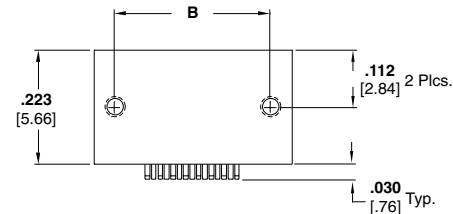
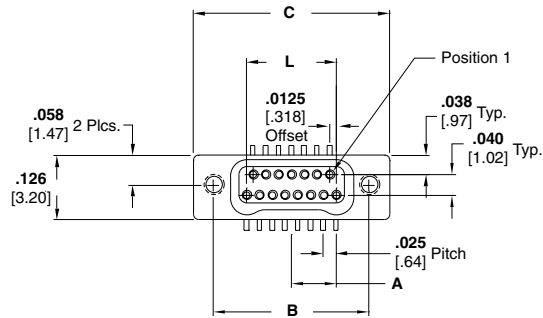
5

Nanominature and Microminature Connectors

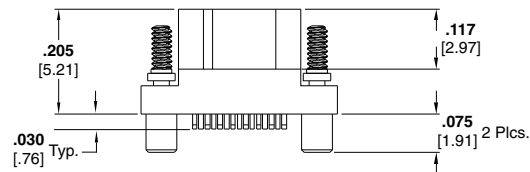
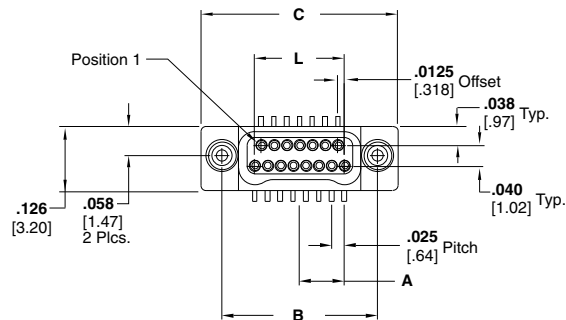
NANONICS Surface Mount Connectors — Vertical, Two Row



Receptacle



Receptacle Assembly
Drawing Number 1589484



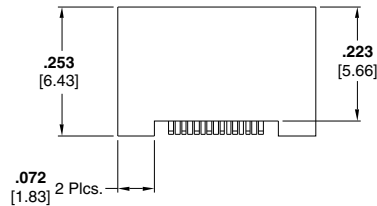
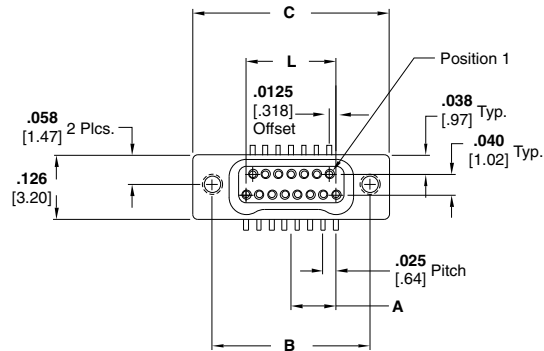
Plug Assembly
Drawing Number 1589485

Size	Dimensions			
	A	B	C	L
9	0.050 [1.27]	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.075 [2.23]	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.150 [3.81]	0.429 [10.90]	0.5085 [12.92]	0.300 [8.89]
37	0.225 [5.72]	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.313 [7.95]	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.400 [10.16]	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

NANONICS Surface Mount Connectors — Vertical, Two Row with Integrated Standoffs

Product Facts

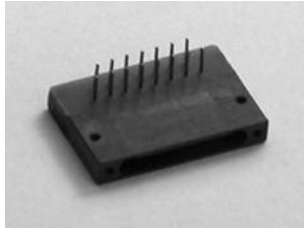
- Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations
- Suggested pad layouts are available on the referenced drawings on the TE website



Receptacle Assembly
Drawing Number 1589486

Size	Dimensions			
	A	B	C	L
9	0.050 [1.27]	0.229 [5.82]	0.3085 [7.84]	.100 [2.54]
15	0.875 [2.23]	0.304 [7.72]	0.3835 [9.74]	.175 [4.45]
25	0.150 [3.81]	0.429 [10.90]	0.5085 [12.92]	.300 [8.89]
37	0.225 [5.72]	0.579 [14.71]	0.6585 [16.73]	.450 [11.43]
51	0.313 [7.95]	0.754 [19.15]	0.8335 [21.17]	.625 [15.88]
65	0.400 [10.16]	0.929 [23.60]	1.0085 [25.62]	.800 [20.32]

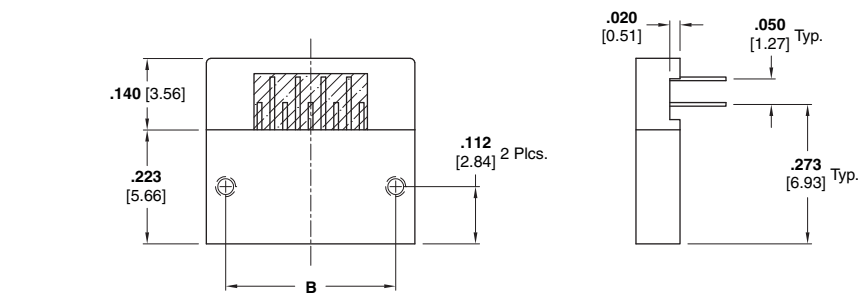
NANONICS Thru-Hole Connectors — Horizontal, 1 Row to 2 Row, .050 Spacing



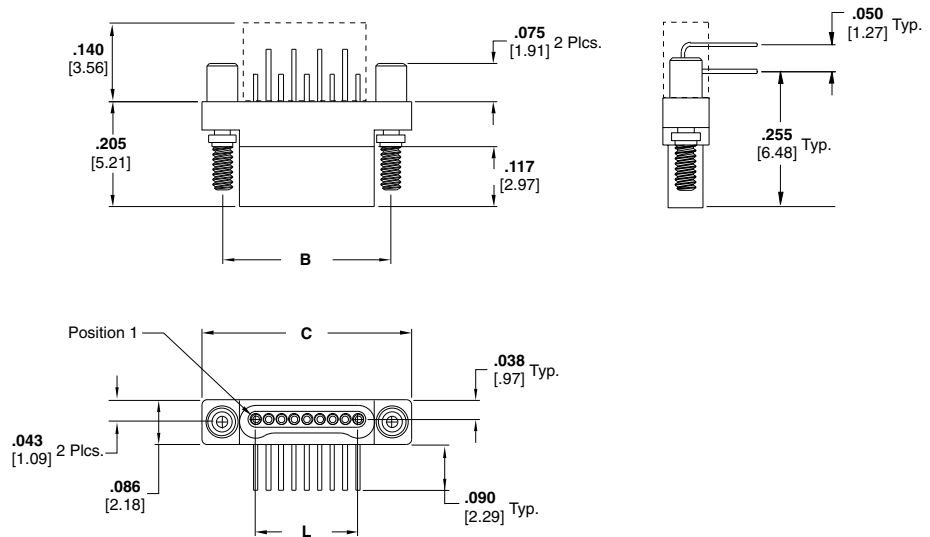
Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact TE Connectivity for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the TE website



Receptacle Assembly
Drawing Number 1589469



Plug Assembly
Drawing Number 1589471

Size	Dimensions		
	B	C	L
5	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	1.033 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

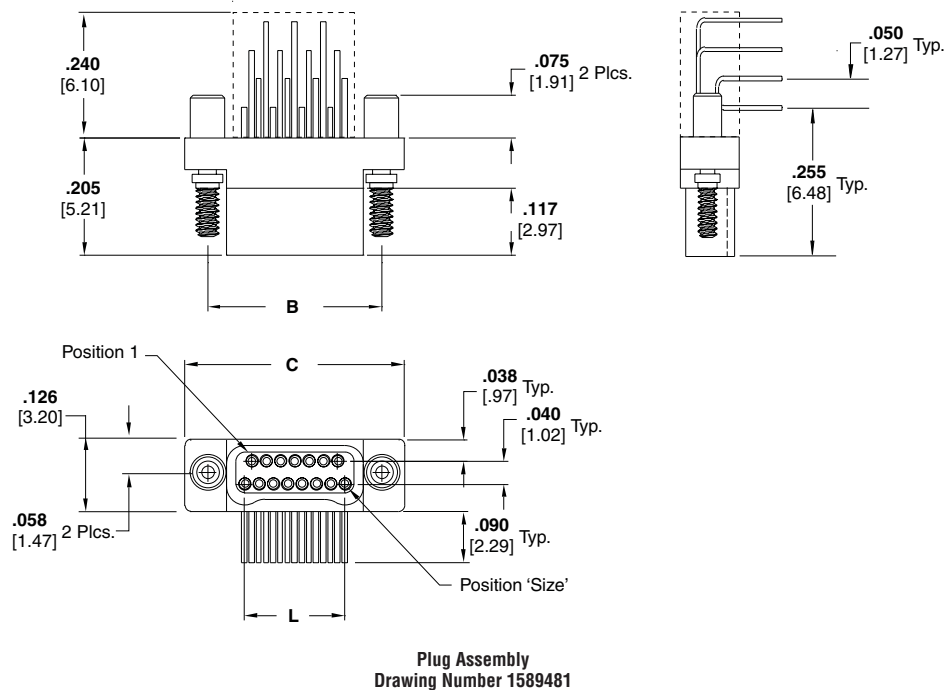
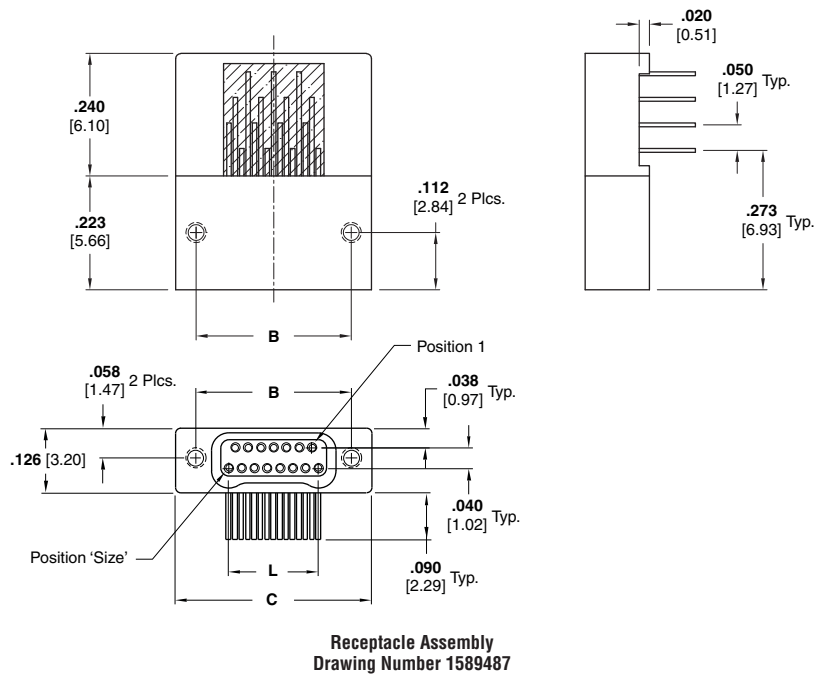
NANONICS Thru-Hole Connectors — Horizontal, 2 Row to 4 Row, .050 Spacing



Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the TE website



Size	Dimensions		
	B	C	L
9	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

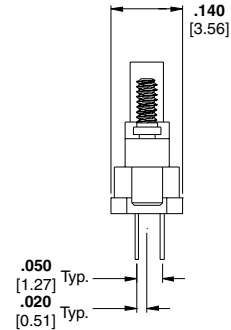
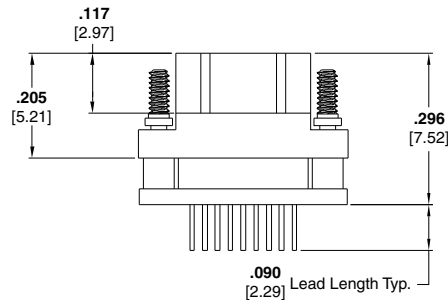
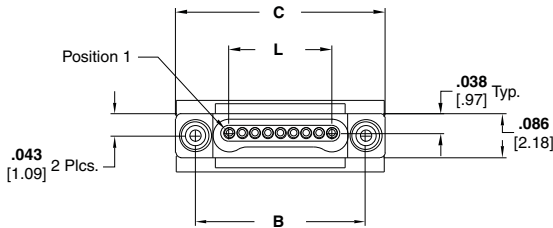
NANONICS Thru-Hole Connectors — Vertical Mount, 1 Row to 2 Row Connectors, .050 Spacing



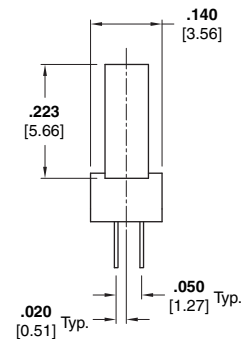
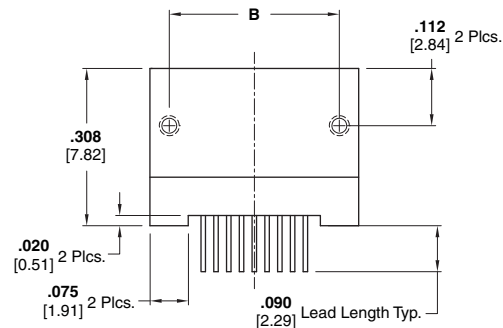
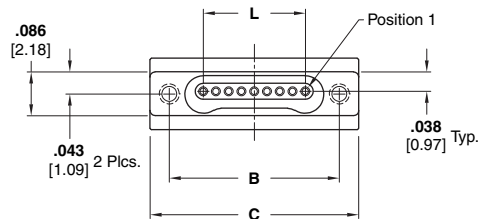
Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37 and 51
- Contact TE Connectivity for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the TE website



Plug Assembly
Drawing Number 1589461



Receptacle Assembly
Drawing Number 1589470

Size	Dimensions		
	B	C	L
5	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	1.033 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

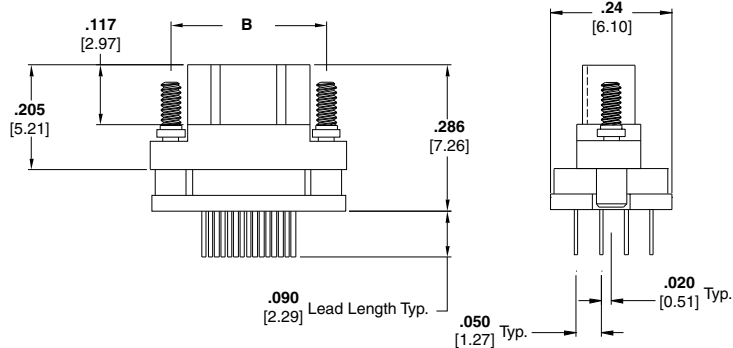
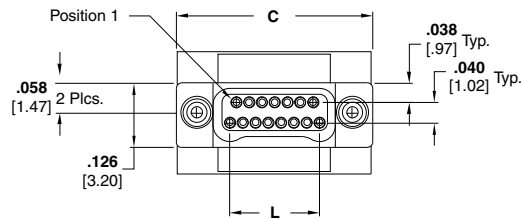
NANONICS Thru-Hole Connectors — Vertical Mount, 2 Row to 4 Row Connectors, .050 Spacing



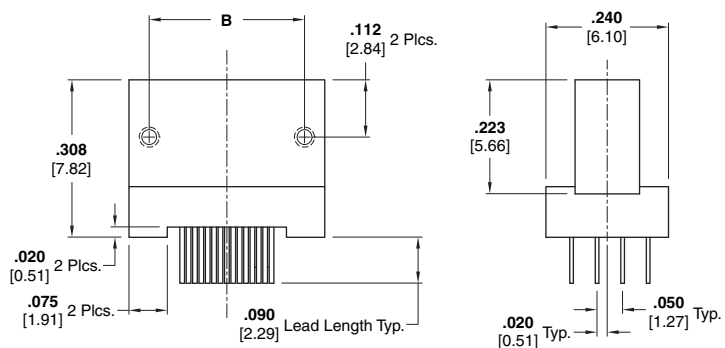
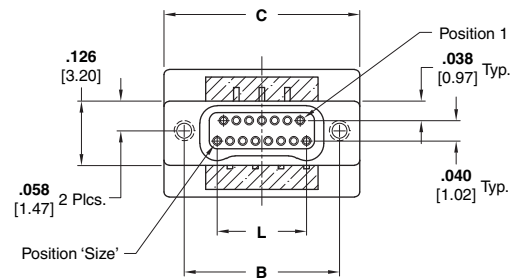
Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the TE website



Plug Assembly
Drawing Number 1589482



Receptacle Assembly
Drawing Number 1589488

Size	Dimensions		
	B	C	L
9	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

Part Numbering Guideline for NANONICS Surface Mount and Thru-Hole Connectors

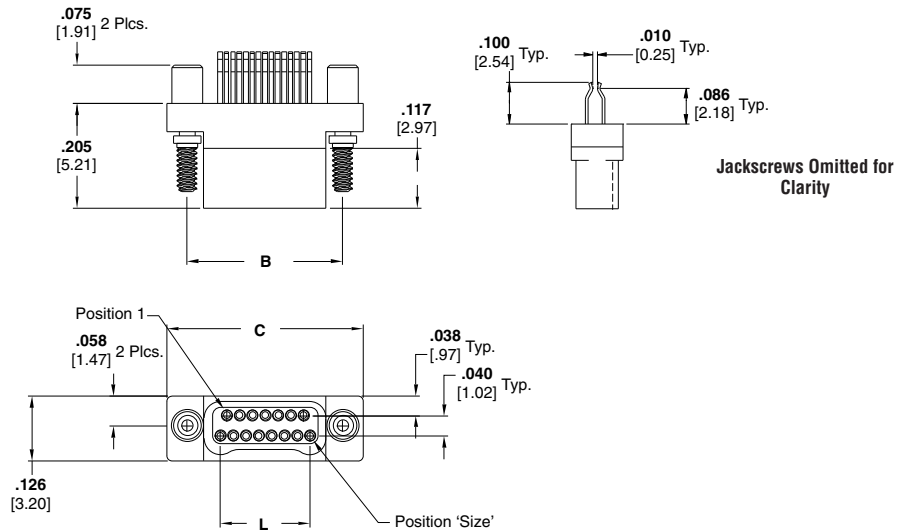
DUALOBE Connectors - Surface Mount and Thru-Hole Terminations

Class	S	X	X	XXX	XX(X)	X	X	Threads/Jackscrew
S DUALOBE								Threads (Receptacles Only) N Thread for 1.0 mm Jackscrews Q Thread for 1.2 mm Jackscrews
Rows								Jackscrews (Plugs Only) M 1.0 mm Non Captive Jackscrews N 1.0 mm Captive Jackscrews Q 1.2 mm Captive Jackscrews
S 1 Row								
T 2 Row								
Type								Mounting Hardware A 1.2 mm x .160" C 1.0 mm x .200" w/ 2 standoffs D 1.2 mm x .160" w/ 2 standoffs H 1.0 mm x .160" I 1.2 mm x .200"
L LCP (Plastic)								K 1.0 mm x .200" w/ 4 standoffs L 1.2 mm x .200" w/ 2 standoffs P 1.2 mm x .200" w/ 4 standoffs S 1.0 mm x .160" w/ 2 standoffs
M Metal (Al, Ni Plate)								
Positions								Configurations B2 Plug, Horizontal SMT B4 Plug, Vertical SMT B42 Plug, Vertical SMT, .020" Extended Leads B44 Plug, Vertical SMT, .040" Extended Leads B43 Plug, Vertical SMT, .020" Extended Leads, 2 side exit (single row only) B45 Plug, Vertical SMT, .040" Extended Leads, 2 side exit (single row only) L2 Receptacle, Horizontal SMT L4 Receptacle, Vertical SMT L42 Receptacle, Vertical SMT, .020" Extended Leads L44 Receptacle, Vertical SMT, .040" Extended Leads L43 Receptacle, Vertical SMT, .020" Extended Leads, 2 side exit (single row only) L45 Receptacle, Vertical SMT, .040" Extended Leads, 2 side exit (single row only) L8 Receptacle, Vertical SMT, w/ integrated standoffs (metal shell only) L82 Receptacle, Vertical SMT, w/ integrated standoffs, .020" Extended Leads (metal shell only) L84 Receptacle, Vertical SMT, w/ integrated standoffs, .040" Extended Leads (metal shell only) L83 Receptacle, Vertical SMT, w/ integrated standoffs, .020" Extended Leads (single row and metal shell only) L85 Receptacle, Vertical SMT, w/ integrated standoffs, .040" Extended Leads (single row and metal shell only) C5 Plug, Vertical Mount, Thru-Hole C6 Plug, Horizontal Mount, Thru-Hole M5 Receptacle, Vertical Mount, Thru-Hole M6 Receptacle, Horizontal Mount, Thru-Hole
005 5 Position (single row only)								
009 9 Position								
015 15 Position								
025 25 Position								
037 37 Position								
051 51 Position								
065 65 Position (two row only)								

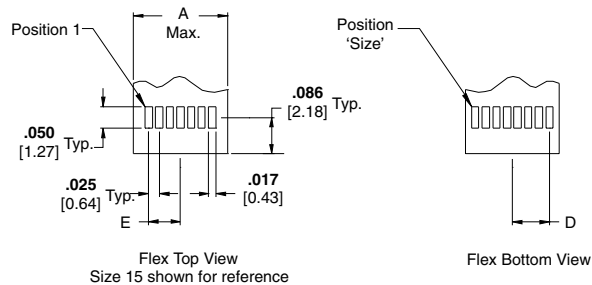
NANONICS Flex Termination “Duckbill” Connectors — Two Row

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations



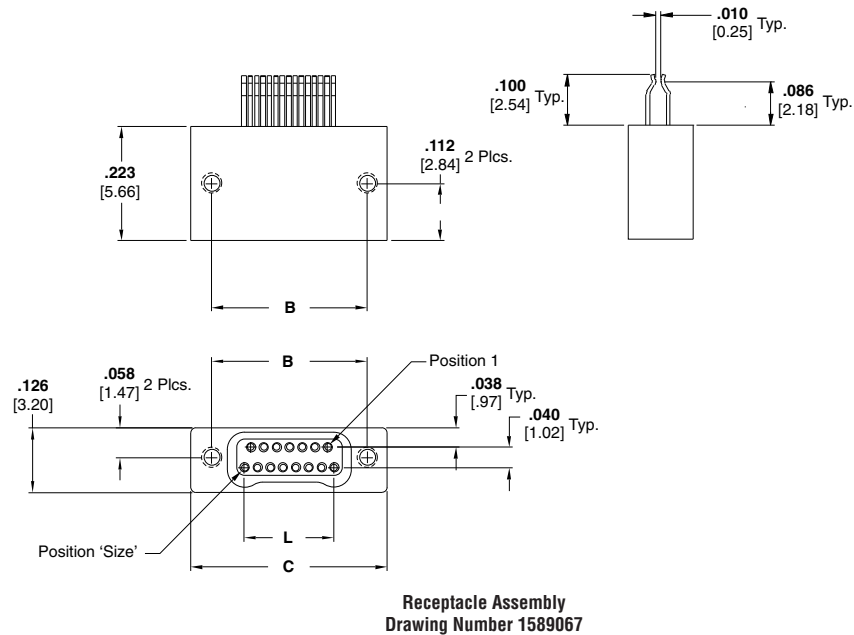
Plug Assembly
Drawing Number 1589066



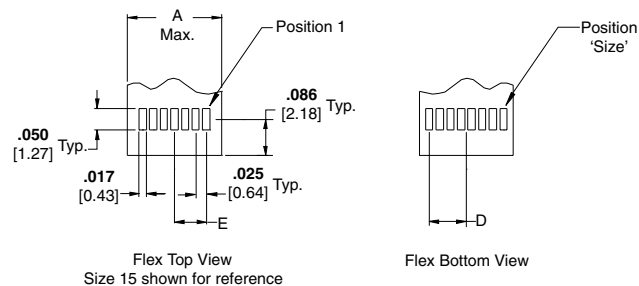
Typical Flex Pad Layout

Size	Dimensions					
	A	B	C	D	E	L
9	0.150 [3.81]	0.229 [5.82]	0.3085 [7.84]	0.0500 [1.27]	0.0375 [0.95]	0.100 [2.54]
15	0.225 [5.72]	0.304 [7.72]	0.3835 [9.74]	0.0875 [2.22]	0.0750 [1.90]	0.175 [4.45]
25	0.350 [8.89]	0.429 [10.90]	0.5085 [12.92]	0.1500 [3.81]	0.1375 [3.49]	0.300 [7.62]
37	0.500 [12.7]	0.579 [14.71]	0.6585 [16.73]	0.2250 [5.72]	0.2125 [5.40]	0.450 [11.43]
51	0.675 [17.1]	0.754 [19.15]	0.8335 [21.17]	0.3125 [7.94]	0.3000 [7.62]	0.625 [15.88]
65	0.850 [21.6]	0.929 [23.60]	1.0085 [25.62]	0.4000 [10.2]	0.3875 [9.84]	0.800 [20.32]

NANONICS Flex Termination “Duckbill” Connectors — Two Row (Continued)



Receptacle Assembly
Drawing Number 1589067



Typical Flex Pad Layout

Part Numbering Guideline for NANONICS Flex Termination “Duckbill” Connectors

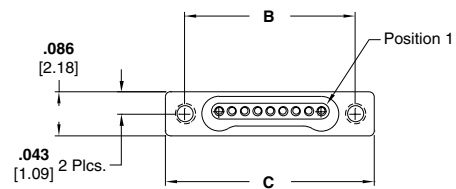
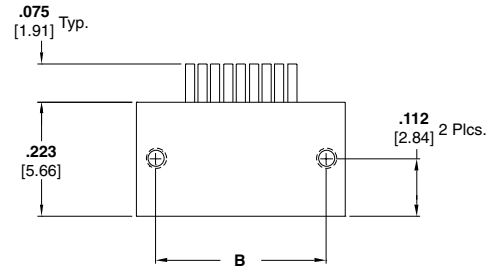
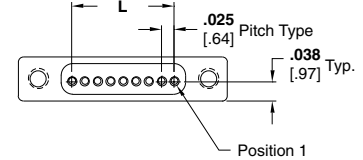
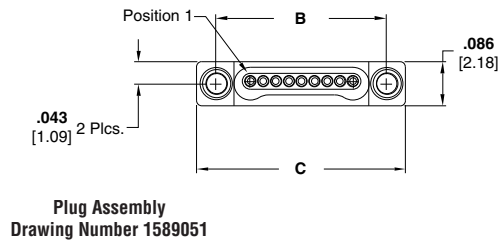
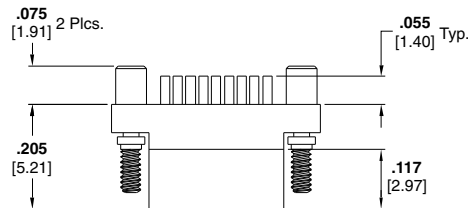
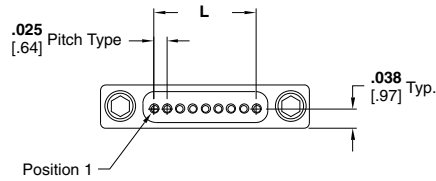
DUALLOBE Connectors - “Duckbill” Termination

[illegible]

NANONICS Solder Cup Connectors — Single Row

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37 and 51
- Contact TE Connectivity for custom configurations



Receptacle Assembly
Drawing Number 1589052

Size	Dimensions		
	B	C	L
5	0.233 [5.92]	0.3085 [7.84]	0.100 [2.54]
9	0.333 [8.46]	0.4085 [10.38]	0.200 [5.08]
15	0.483 [12.27]	0.5585 [14.19]	0.350 [8.89]
25	0.733 [18.62]	0.8085 [20.54]	0.600 [15.24]
37	1.033 [26.24]	1.1085 [28.16]	0.900 [22.86]
51	1.383 [35.13]	1.4585 [37.05]	1.250 [31.75]

NANONICS Solder Cup Connectors — Two Row



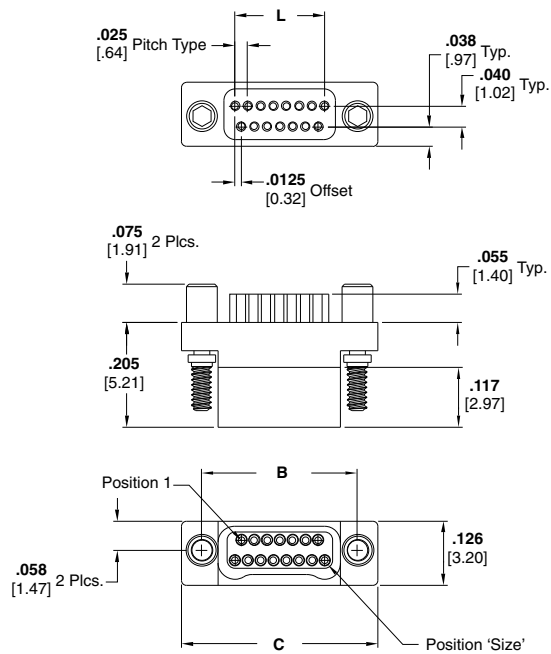
Plug



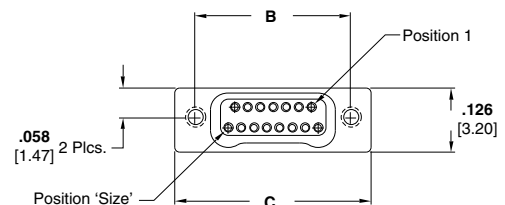
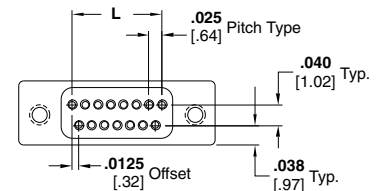
Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations



Plug Assembly
Drawing Number 1589053



Receptacle Assembly
Drawing Number 1589054

Size	Dimensions		
	B	C	L
9	0.229 [5.82]	0.3085 [7.84]	0.100 [2.54]
15	0.304 [7.72]	0.3835 [9.74]	0.175 [4.45]
25	0.429 [10.90]	0.5085 [12.92]	0.300 [7.62]
37	0.579 [14.71]	0.6585 [16.73]	0.450 [11.43]
51	0.754 [19.15]	0.8335 [21.17]	0.625 [15.88]
65	0.929 [23.60]	1.0085 [25.62]	0.800 [20.32]

Part Numbering Guideline for NANONICS Solder Cup Connectors

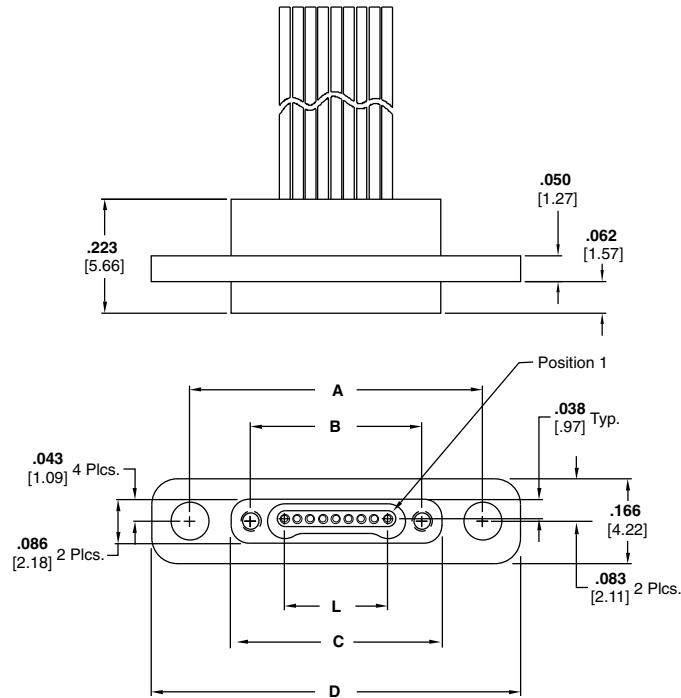
DUALLOBE Connectors - Solder Cup Termination

Class	S	X	X	XXX	11500	XX	X
S DUALOBE							Threads/Jackscrew
							Threads (Receptacles Only)
							N Thread for 1.0 mm Jackscrews
							Q Thread for 1.2 mm Jackscrews
							Configuration
							PC Plug
							SC Receptacle
Rows							Jackscrews (Plugs Only)
S 1 Row							M 1.0 mm Non Captive Jackscrews
T 2 Row							N 1.0 mm Captive Jackscrews
							Q 1.2 mm Captive Jackscrews
Type							
L LCP (Plastic)							
M Metal (Al, Ni Plate)							
Positions							
005 5 Position (single row only)							
009 9 Position							
015 15 Position							
025 25 Position							
037 37 Position							
051 51 Position							
065 65 Position (two row only)							
							Termination Code
					11500	Solder Cup Termination	

NANONICS Panel Mount Connectors — Single Row, Flying Leads

Product Facts

- Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37 and 51
- Factory wired to your specifications
- Contact TE Connectivity for custom configurations



Receptacle Assembly
Drawing Number 1589851

Size	Dimensions				
	A	B	C	D	L
5	0.470 [11.94]	0.233 [5.92]	0.310 [7.87]	0.620 [15.75]	0.100 [2.54]
9	0.570 [14.48]	0.333 [8.46]	0.410 [10.41]	0.720 [18.29]	0.200 [5.08]
15	0.720 [18.29]	0.483 [12.27]	0.560 [14.22]	0.870 [22.10]	0.350 [8.89]
25	0.970 [24.64]	0.733 [18.62]	0.810 [20.57]	1.120 [28.45]	0.600 [15.24]
37	1.270 [32.26]	1.033 [26.24]	1.110 [28.19]	1.420 [36.07]	0.900 [22.86]
51	1.620 [41.15]	1.383 [35.13]	1.460 [37.08]	1.770 [44.96]	1.250 [31.75]

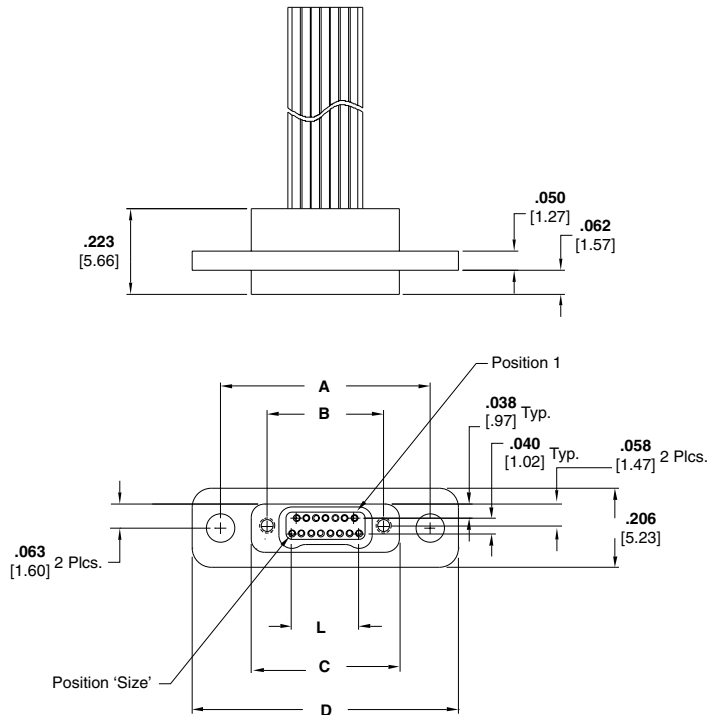
NANONICS Panel Mount Connectors — Two Row, Flying Leads



Receptacle

Product Facts

- Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact TE Connectivity for custom configurations


Receptacle Assembly
Drawing Number 1589050

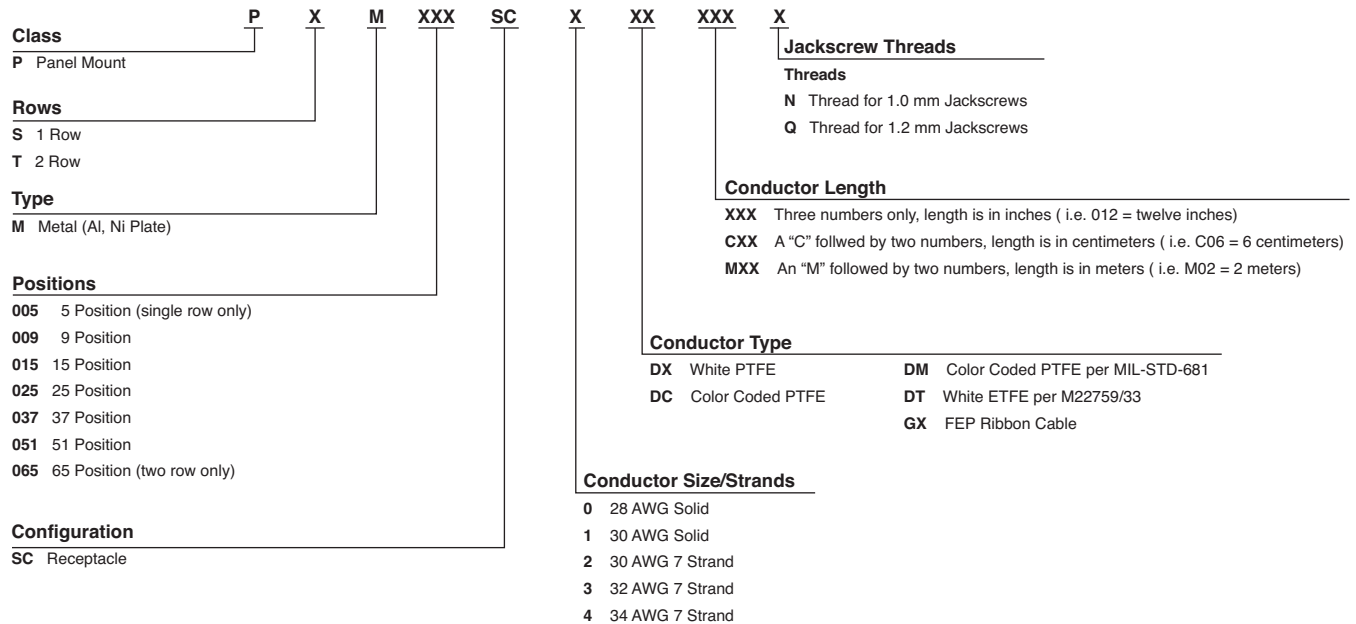
Size	Dimensions				
	A	B	C	D	L
9	0.470 [11.94]	0.229 [5.82]	0.310 [7.87]	0.620 [15.75]	0.100 [2.54]
15	0.545 [13.84]	0.304 [7.72]	0.385 [9.78]	0.695 [17.65]	0.175 [4.45]
25	0.670 [17.02]	0.429 [10.90]	0.510 [12.95]	0.820 [20.83]	0.300 [7.62]
37	0.820 [20.83]	0.579 [14.71]	0.660 [16.76]	0.970 [24.64]	0.450 [11.43]
51	0.995 [25.27]	0.754 [19.15]	0.835 [21.21]	1.145 [29.08]	0.625 [15.88]
65	1.170 [29.72]	0.929 [23.60]	1.010 [25.65]	1.320 [33.53]	0.800 [20.32]

5

Nanominature and Microminature Connectors

Part Numbering Guideline for NANONICS Panel Mount Connectors

DUALOBE Connectors - Panel Mount



Part Number Index Cross Reference

NANONICS Part Number	TE Part Number	NANONICS Part Number	TE Part Number	NANONICS Part Number	TE Part Number	NANONICS Part Number	TE Part Number
Wired Connectors		SSL015SC2DC005N	9-1589457-6	SSM009PC0DC012N	0-1589827-7	SSM015PC2DC003N	8-1589455-6
SSL005PC0DC006N	0-1589455-2	SSL015SC2DC006N	1-1589457-2	SSM009PC0DC024N	5-1589455-3	SSM015PC2DC006	8-1589455-7
SSL005PC0DC012N	0-1589455-3	SSL015SC2DC012N	1-1589457-3	SSM009PC0DM024N	5-1589455-4	SSM015PC2DC006N	8-1589455-8
SSL005PC0DX012M	7-1589456-3	SSL015SC2DC024N	1-1589457-4	SSM009PC0DX012N	5-1589455-5	SSM015PC2DC008N	8-1589455-9
SSL005PC2DC002N	2-1589827-7	SSL015SC2DC036N	8-1589457-9	SSM009PC2DC003	5-1589455-6	SSM015PC2DC012	9-1589455-0
SSL005PC2DC004	0-1589455-4	SSL025PC0DC012M	8-1589456-5	SSM009PC2DC003N	5-1589455-7	SSM015PC2DC012M	6-1589456-6
SSL005PC2DC006	0-1589455-5	SSL025PC2DC006	3-1589455-1	SSM009PC2DC006	5-1589455-8	SSM015PC2DC012N	9-1589455-1
SSL005PC2DC006N	0-1589455-6	SSL025PC2DC006N	3-1589455-2	SSM009PC2DC006N	5-1589455-9	SSM015PC2DC018	9-1589455-2
SSL005PC2DC012N	6-1589456-4	SSL025PC2DC012	3-1589455-3	SSM009PC2DC010N	6-1589455-0	SSM015PC2DC018N	9-1589455-3
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Part Number Index Cross Reference (Continued)

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SSM025PC2DC018	1-1589456-9	SSM037SC2DC024N	1-1589901-1	STL009PC3DX030N	2-1589472-1	STL025PC2DC018Q	7-1589788-4
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SSM025PC2DM024N	8-1589456-3	SSM051PC2DC024N	5-1589456-0	STL009SC3DX024N	0-1589476-9	STL025PC4DX030N	5-1589472-2
SSM025PC2DT012N	1-1589827-8	SSM051PC2DC030N	5-1589456-1	STL015PC0DC006N	2-1589472-2	STL025SC2DC001N	1-1589476-9
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SSM025PC2DX018N	2-1589456-7	SSM051PC2DM012Q	5-1589456-3	STL015PC1DNC50N	2-1589472-5	STL025SC2DC030N	2-1589476-2
SSM025PC2DX024N	2-1589456-8	SSM051PC2DM018N	6-1589456-7	STL015PC2DC006	2-1589472-6	STL025SC2DC036N	2-1589476-3
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STM025PC2DCC40N	0-1589474-1	STM025SC2DM010N	1-1589777-5	STM037PC2DM024M	5-1589474-4	STM051PC2DC012N	7-1589474-2
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JTL065PR2DX002N	0-1589738-8	JTM025PP2DY024N	2-1589737-3	JTM051PP2DX036N	1-1589737-3	SSL051B2	0-1589460-5
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STM051L82IQ	1-1589486-5	SSM005M6SN	1-1589469-7	STL025M6N	1-1589487-1	STM025C6N	0-1589481-4
STM051L82LQ	2-1589486-2	SSM009C5Q	0-1589461-1	STL025M6SN	1-1589487-2	STM025M5AQ	6-1589488-4
STM051L84HN	2-1589486-8	SSM009C6Q	0-1589471-1	STL037M5CN	4-1589488-9	STM025M5CN	2-1589488-8
STM051L8HN	1-1589486-0	SSM009M5CN	0-1589470-5	STL037M5LQ	1-1589488-3	STM025M5HN	2-1589488-9
		SSM009M5HN	0-1589470-6			STM025M5LQ	3-1589488-0

Part Number Index Cross Reference (Continued)

NANONICS Part Number	TE Part Number
STM025M5PQ	3-1589488-1
STM025M5SN	3-1589488-2
STM025M6AN	2-1589487-9
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STM025M6HN	3-1589487-2
STM025M6IQ	5-1589487-9
STM025M6N	3-1589487-3
STM025M6Q	3-1589487-4
STM025M6SN	3-1589487-5
STM025M9AN	0-1589489-2
STM025M9HN	0-1589489-4
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STM037C5Q	1-1589482-2
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STM037C6Q	0-1589481-9
STM037M5AN	3-1589488-3
STM037M5AQ	5-1589488-7
STM037M5CN	3-1589488-4
STM037M5HN	3-1589488-5
STM037M5N	3-1589488-6
STM037M5PQ	3-1589488-7
STM037M5SN	3-1589488-8
STM037M6AN	3-1589487-6
STM037M6AQ	3-1589487-7
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STM065M6CN	5-1589487-1
STM065M6HN	5-1589487-3
STM065M6KN	6-1589487-2
STM065M6SN	5-1589487-4

Flex Termination "Duckbill"

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STL03711378PCN	0-1589066-7
STL05111378PCN	0-1589066-8
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STM02511378PC	1-1589066-2
STM02511378PCN	1-1589066-3
STM02511378SCN	0-1589067-8
STM03711378PCN	1-1589066-4
STM03711378PCQ	1-1589066-5
STM03711378SCN	1-1589067-2
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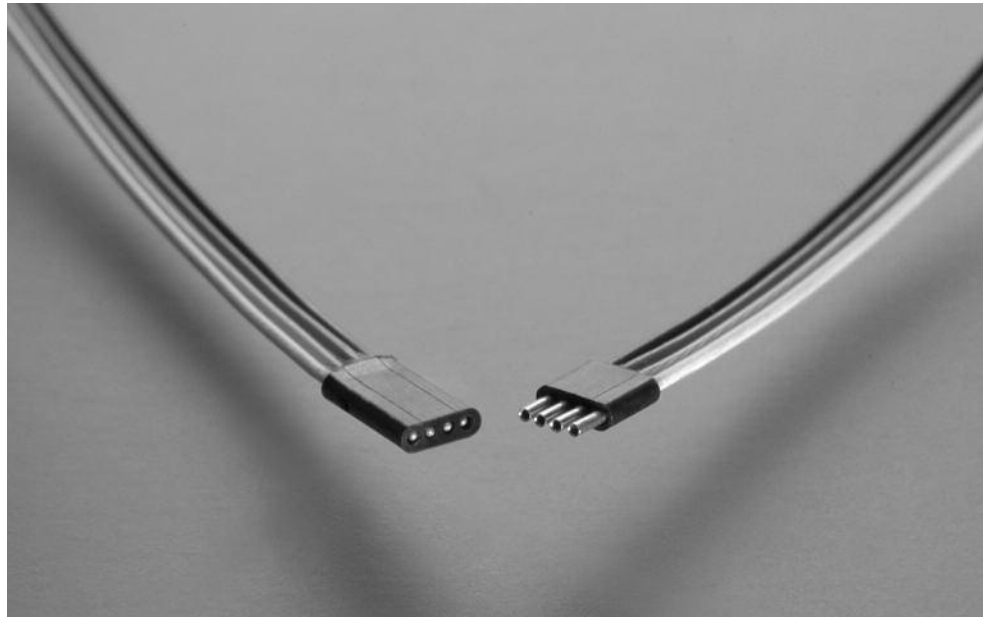
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SSM01511500PCN	1-1589051-0
SSM01511500SC	0-1589052-5
SSM01511500SCN	1-1589052-0
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STL02511500PC	0-1589053-3
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STM00911500PCN	0-1589053-7
STM00911500SCN	0-1589054-5
STM01511500PCN	0-1589053-8
STM01511500PCQ	0-1589053-9
STM01511500SCHN	0-1589054-6
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STM01511500SCQ	1-1589054-4
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STM03711500PCN	1-1589053-2
STM03711500PCQ	1-1589053-3
STM03711500SCN	1-1589054-0
STM05111500PCN	1-1589053-4
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STM05111500SCN	1-1589054-1
STM05111500SCQ	1-1589054-5
STM06511500PC	1-1589053-6

NANONICS Part Number	TE Part Number
STM06511500PCN	1-1589053-7
STM06511500SCN	1-1589054-2
STM06511500SCQ	1-1589054-6

Panel Mount

NANONICS Part Number	TE Part Number
PSM005SC2DC024N	0-1589851-2
PSM009SC2DC060N	0-1589851-1
PTM009SC2DC060N	0-1589050-7
PTM015SC2DC024N	0-1589050-4
PTM015SC2DC060N	0-1589050-5
PTM025SC2DC060N	0-1589050-6
PTM037SC2DC018N	0-1589050-3
PTM065SC2DC018N	0-1589050-2

NANONICS Strip Connectors Introduction



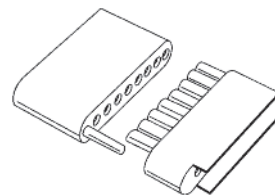
The NANONICS strip connectors are the smallest connectors in the NANONICS product line. They are molded from LCP and are ideal for applications where the height and weight of the connector is a serious design parameter. Just .040" in height, these

connectors are well suited for low-profile applications. Standard sizes are 4, 9, and 15, while 25, 37, and 51 are also available upon request. Standard configurations include wired, surface mount, or thru-hole terminations.

Guide pins are available for polarization. Harness assemblies and custom configurations can also be accommodated.

Polarization

Polarization of the strips is accomplished with the use of optional polarizing guide posts.

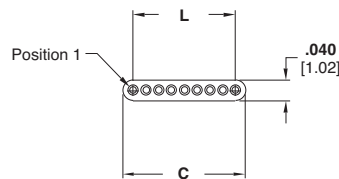
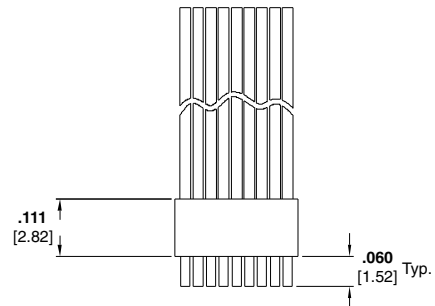
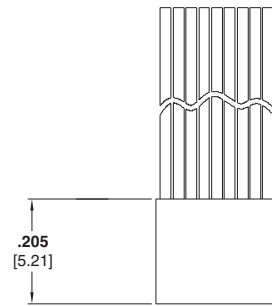


Polarization Position
"T" Shown

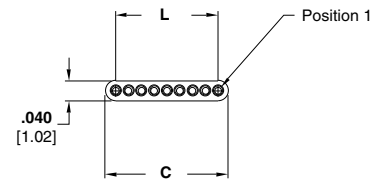
NANONICS Wired Connectors — Unshrouded, Flying Leads

Product Facts

- Plastic Shell
- Standard Sizes: 4, 9, 15, 25, 37 and 51
- Polarization positions are optional
- Factory wired to your specifications
- Contact TE Connectivity for custom configurations



Plug Assembly
Drawing Number 1589448



Receptacle Assembly
Drawing Number 1589449

Size	Dimensions	
	C	L
4	0.115 [2.92]	0.075 [1.91]
9	0.240 [6.10]	0.200 [5.08]
15	0.390 [9.91]	0.350 [8.89]
25	0.640 [16.26]	0.600 [15.24]
37	0.940 [23.88]	0.900 [22.86]
51	1.290 [32.77]	1.250 [31.75]

Part Numbering Guideline for NANONICS Strip Wired Connectors

Strip Connectors - Wire Terminations

Class/Row/Type	USS	XXX	XX	X	XX	XXX	X
USS Unshrouded, 1 row, strip							Polarization (optional) Plug contains guide post Receptacle accepts guide post
Positions							Conductor Length XXX Three numbers only, length is in inches (i.e. 012 = twelve inches) CXX A "C" followed by two numbers, length is in centimeters (i.e. C06 = 6 centimeters) MXX An "M" followed by two numbers, length is in meters (i.e. M02 = 2 meters)
004 4 Position 009 9 Position 015 15 Position 025 25 Position							Conductor Type DX White PTFE DC Color Coded PTFE DM Color Coded PTFE per MIL-STD-681 DT White Tefzel per M22759/33
Configuration PC Plug SC Receptacle							
Conductor Size/Strands 0 28 AWG Solid 1 30 AWG Solid 2 30 AWG 7 Strand 3 32 AWG 7 Strand 4 34 AWG 7 Strand							

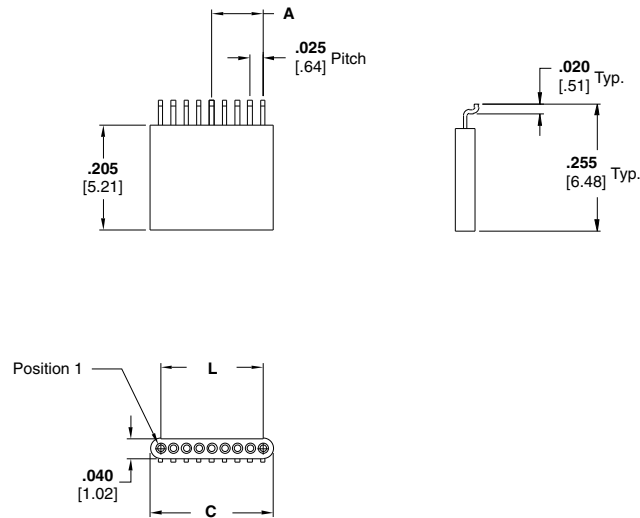
Polarization (Strip Type Only)

T = One Pin	
U = One Pin	
V = One Pin	
W = Two Pin	
Y = Two Pin	
Z = Two Pin	

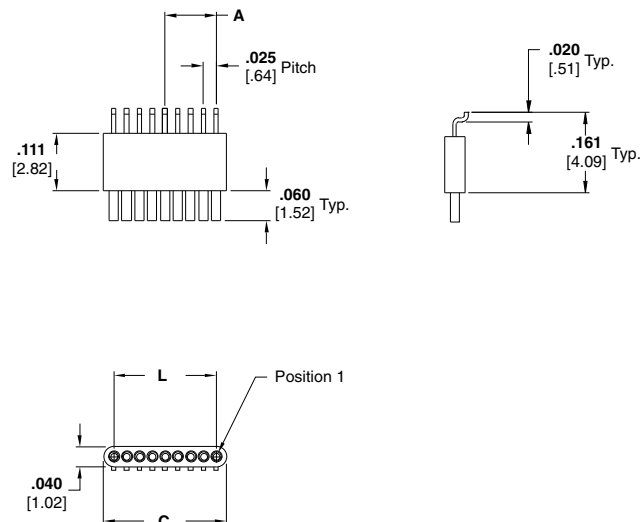
NANONICS Surface Mount Connectors — Unshrouded

Product Facts

- Plastic Shell
- Standard Sizes: 4, 9, 15, 25, 37 and 51
- Polarization positions are optional
- Contact TE Connectivity for custom configurations
- Suggested Pad Layouts are available on the referenced drawings on the TE website



Plug Assembly
Drawing Number 1589451



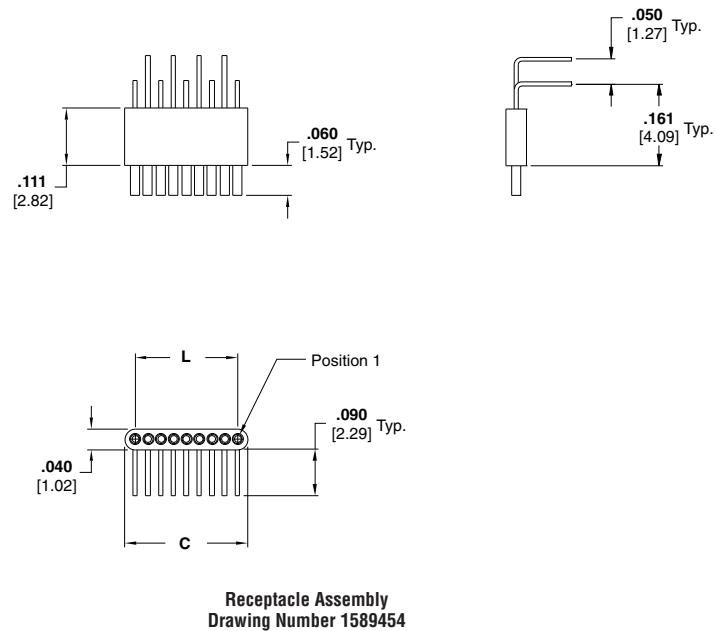
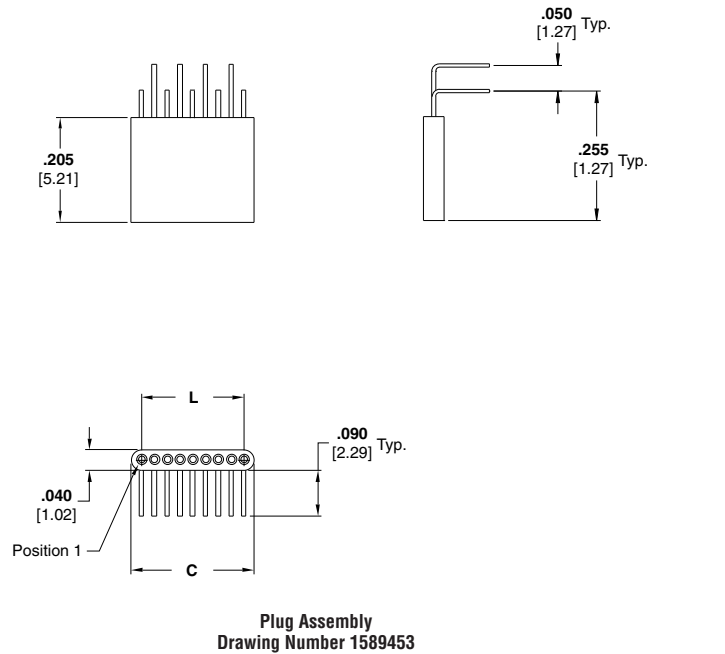
Receptacle Assembly
Drawing Number 1589452

Size	Dimensions		
	A	C	L
4	0.0375 [.95]	0.115 [2.92]	0.075 [1.91]
9	0.1000 [2.54]	0.240 [6.10]	0.200 [5.08]
15	0.1750 [4.45]	0.390 [9.91]	0.350 [8.89]
25	0.3000 [7.62]	0.640 [16.26]	0.600 [15.24]
37	0.4500 [11.43]	0.940 [23.88]	0.900 [22.86]
51	0.6250 [15.88]	1.290 [32.77]	1.250 [31.75]

NANONICS Thru-Hole Connectors — Unshrouded, Horizontal, 1 Row to 2 Row, .050 Spacing

Product Facts

- Plastic Shell
- Standard Sizes: 4, 9, 15, 25, 37 and 51
- Polarization positions are optional
- Contact TE Connectivity for custom configurations
- Suggested Thru-Hole Layouts are available on the referenced drawings on the TE website



Size	Dimensions	
	C	L
4	0.115 [2.92]	0.075 [1.91]
9	0.240 [6.10]	0.200 [5.08]
15	0.390 [9.91]	0.350 [8.89]
25	0.640 [16.26]	0.600 [15.24]
37	0.940 [23.88]	0.900 [22.86]
51	1.290 [32.77]	1.250 [31.75]

Part Numbering Guideline for NANONICS Surface Mount and Thru-Hole Termination

Strip Connectors - Surface Mount and Thru-Hole Terminations

Class/Row/Type	USS	XXX	XX	X
USS Unshrouded, 1 row, strip				Polarization (optional) Plug contains guide post Receptacle accepts guide post
Positions				Configuration
004 4 Position				B2 Plug, Horizontal SMT
009 9 Position				L2 Receptacle, Horizontal SMT
015 15 Position				C6 Plug, Horizontal Mount, Thru-Hole
025 25 Position				M6 Receptacle, Horizontal Mount, Thru-Hole

Polarization (Strip Type Only)

T = One Pin	
U = One Pin	
V = One Pin	
W = Two Pin	
Y = Two Pin	
Z = Two Pin	

Part Number Index Cross Reference

NANONICS Part Number	TE Part Number	NANONICS Part Number	TE Part Number	NANONICS Part Number	TE Part Number	NANONICS Part Number	TE Part Number
Wire Terminations		USS004SC3DC018	1-1589449-8	USS009SC3DC036	7-1589449-6	Surface Mount	
USS004PC2DC003	0-1589448-1	USS004SC3DX004T	1-1589449-9	USS009SC3DX004T	4-1589449-4	USS004B2	0-1589451-1
USS004PC2DC006	0-1589448-2	USS004SC4DXC30	8-1589449-2	USS015PC1DC036T	7-1589448-3	USS004B2T	0-1589451-2
USS004PC2DC006T	5-1589448-5	USS009PC0DC006T	1-1589448-6	USS015PC1DC036W	7-1589448-4	USS004B4	0-1589775-1
USS004PC2DC008	6-1589448-8	USS009PC2DC006	1-1589448-7	USS015PC2DC006	3-1589448-5	USS004B45T	0-1589450-1
USS004PC2DC012	0-1589448-3	USS009PC2DC006W	1-1589448-8	USS015PC2DC012	3-1589448-6	USS004B4T	3-1589683-2
USS004PC2DC012T	0-1589448-4	USS009PC2DC008U	5-1589448-2	USS015PC2DC012T	3-1589448-7	USS004L2	0-1589452-1
USS004PC2DC012U	0-1589448-5	USS009PC2DC012	1-1589448-9	USS015PC2DC012V	3-1589448-8	USS004L2T	0-1589452-2
USS004PC2DC024	0-1589448-6	USS009PC2DC012T	2-1589448-0	USS015PC2DC018	3-1589448-9	USS009B2	0-1589451-3
USS004PC2DC036	0-1589448-7	USS009PC2DC012V	2-1589448-1	USS015PC2DC018V	5-1589448-6	USS009B2T	0-1589451-5
USS004PC2DC036T	0-1589448-8	USS009PC2DC018V	2-1589448-2	USS015PC2DMC60T	4-1589448-0	USS009B2TE	1-1589451-5
USS004PC2DCC20T	5-1589448-9	USS009PC2DC024	2-1589448-3	USS015PC2DX004T	4-1589448-1	USS009B2Z	0-1589451-6
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USS004PC2DMC30	6-1589448-9	USS009PC2DCC05T	2-1589448-8	USS015SC1DC036W	8-1589449-7	USS009L2U	0-1589452-5
USS004PC2DMC40	7-1589448-1	USS009PC2DCM01	5-1589448-8	USS015SC2DC006	4-1589449-6	USS009L2V	0-1589452-6
USS004PC2DMC50	6-1589448-7	USS009PC2DM012T	7-1589448-5	USS015SC2DC012	4-1589449-7	USS015B2	0-1589451-8
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USS004SC2DC048	1-1589449-1	USS009SC2DC025T	3-1589449-1	USS037PC2DC020T	4-1589448-8	USS009C6V	0-1589453-4
USS004SC2DCC20T	7-1589449-1	USS009SC2DC036T	3-1589449-2	USS037PC2DNC50	4-1589448-9	USS009M6	0-1589454-2
USS004SC2DCC30	1-1589449-2	USS009SC2DC036U	3-1589449-3	USS037PC2DT006T	5-1589448-4	USS015C6	0-1589453-5
USS004SC2DCM01	6-1589449-7	USS009SC2DC036V	3-1589449-4	USS037SC1DXC20	5-1589449-5		
USS004SC2DM012T	8-1589449-4	USS009SC2DC036W	3-1589449-5	USS037SC1DY006	6-1589449-6		
USS004SC2DM024T	8-1589449-9	USS009SC2DC060T	3-1589449-6	USS037SC2DC006	5-1589449-6		
USS004SC2DMC30	8-1589449-1	USS009SC2DCC05T	3-1589449-7	USS037SC2DC012	7-1589449-5		
USS004SC2DMC40	8-1589449-3	USS009SC2DCM01	6-1589449-8	USS037SC2DC036T	6-1589449-9		
USS004SC2DMC50	7-1589449-9	USS009SC2DCM01T	3-1589449-8	USS037SC2DT006T	6-1589449-0		
USS004SC2DMM01	7-1589449-2	USS009SC2DM012T	8-1589449-8	USS037SC2DX006T	5-1589449-7		
USS004SC2DMM02	7-1589449-3	USS009SC2DM024T	9-1589449-0	USS051PC2DC012	5-1589448-0		
USS004SC2DNC40	1-1589449-3	USS009SC2DT012T	9-1589449-1	USS051PC2DX012	5-1589448-1		
USS004SC2DTC20T	8-1589449-5	USS009SC2DX004T	3-1589449-9	USS051SC2DC012	5-1589449-8		
USS004SC2DX006	1-1589449-4	USS009SC2DX006T	4-1589449-0				
USS004SC2DX012T	1-1589449-5	USS009SC2DX012	4-1589449-1				
USS004SC2GX006	1-1589449-6	USS009SC2GX006	4-1589449-2				
USS004SC2GX024	1-1589449-7	USS009SC2GX012	4-1589449-3				

MICRODOT Microminiature Connectors Introduction

MICRODOT Connector products have a sixty-year heritage of leadership in precision design and manufacturing of innovative interconnects. These products offer interconnect solutions for a broad range of applications in the Military, Aerospace, Marine, and Space Industries.

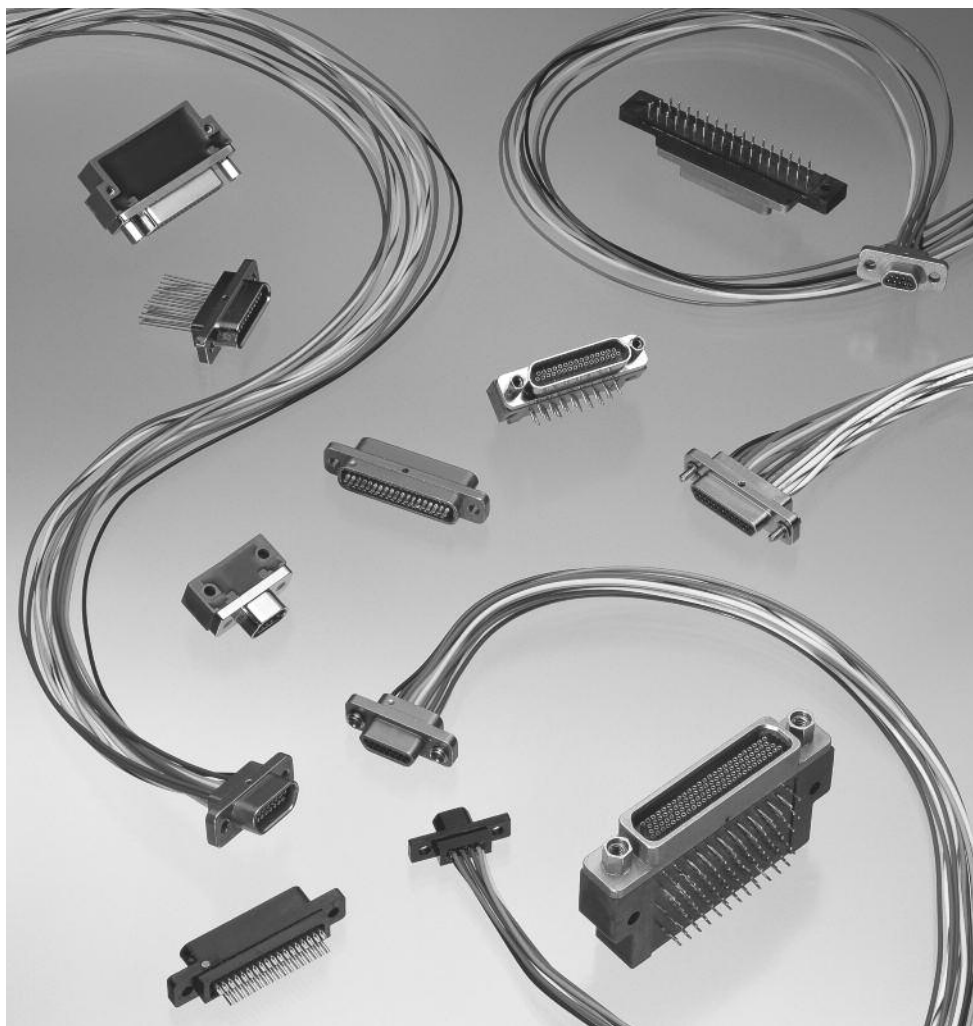
The MICRODOT reputation for hands-on experience and outstanding technical support is now enhanced as part of TE Connectivity Corporation.

From standard Mil-Spec configurations to custom designs, we have the Micro-D, subminiature and ultra-miniature coaxial, and cylindrical connectors

to meet your need, whether it is build-to-print assemblies, or total turn-key assembly program management. MICRODOT connectors have met the rigorous demands imposed in manned space flight, military and commercial satellites, and geo-physical exploration.

MICRODOT Microminiature D Connectors Introduction**Product Facts**

- Designed for both military and commercial applications
- Low engaging force is achieved by the manner in which Twist Pin Contacts are designed
- The metal shell and plastic shell are available with solder cup and solid or stranded wire terminations
- Mating force maximum is 10 oz. [2.78N] times the number of contacts
- Durability — No known mechanical or electrical issues detrimental to the function of the connectors after 500 cycles of mating and unmating
- Current Rating — 3 amps max per contact



MICRODOT Connectors MCK and MCD High Density Microminiature "D" Connectors described in this catalog comprise a complete connector system, which is adaptable to a numerous variety of form factors. Low engaging force is achieved by the manner in which the twist pin contacts are designed. By constructing the male contact as a breathing helical spring, electrical contact is achieved at many points around the periphery of the pin bundle rather than at a few discrete

points, as in conventional pin designs. Normal twist pin engagement force is 6 oz. [1.67N] typically and 8 oz. [2.22N] maximum. The low force twist pins exhibit an engaging force of 4 oz. [1.11N] typically and 5 oz. [1.39N] maximum.

The MCK and MCD Series of connectors featured in this catalog are designed to meet the applicable requirements of MIL-DTL-83513, for intermateability, interchangeability, and performance. Designed for both military and commercial applications, the MCK's

and MCD's are especially well suited for use in miniaturized airborne and space electronics, computers, and test equipment. The metal shell MCK's and plastic shell MCD's are available with solder cup, and solid or stranded wire terminations. MCK transition blocks are standard for printed circuit board mounting. Custom termination configurations for both MCK and MCD can be accommodated. Micro D's are also supplied in wired harness assemblies.

MICRODOT MCK/MCD/MCDM Series Metal and Plastic Shell Connectors

Technical and Performance Data

(Applicable to MCK, MCD and MCDM unless otherwise noted)

Electrical

Contacts — Pin 24 AWG twist pin, Socket 24 AWG precision machined barrel or Stamped and Formed 24 AWG Pin and Socket. Wire Range 24 AWG to 30 AWG solid and stranded.

Contact Resistance — (voltage drop) 25 millivolts max. at 3 amps, 77°± 7.4°F [25°± 3° C].

Current Rating — 3 amps max. per contact.

Dielectric Withstanding Voltage — Volts RMS 60 Hz at room ambient. At sea level 600V
At 70,000 ft. [21,336 m] 150V

Insulation Resistance — 5,000 megohms min. (@ 500 VDC) at ambient room temperature.

Magnetic Permeability — 2 mu max.

Mechanical

Contact Spacing — .050 [1.27mm] centers.

Contact Engagement & Separation — Standard contact engaging force is 6.0 oz. [1.67N] (8.0 oz. [2.22N] max.). Separation force is 0.5 [1.4N] oz. min.

Mating Force Maximum — Calculated as 10 oz. times the number of contacts.

Environmental

Temperature Range — -67°F to 257°F [-55° C to +125°C] for MCK/MCD, -67°F to 302°F [-55°C to +150°C] for MCDM.

Vibration — No discontinuity in excess of 1 µ second when tested in accordance with EIA-364-28, test condition IV.

Solderability — Connectors shall pass the test requirements of MIL-STD-202, Method 208

Shock — No discontinuity in excess of 1 µ second when tested in accordance with EIA-364-27, test condition E.

Durability — No mechanical or electrical defects detrimental to the function of the connectors after 500 cycles of mating and unmating.

Humidity — After exposure to humidity as specified EIA-364-31, Method II, IR shall be 1 megohm minimum following step 7a of EIA-364-31 section 4.3.6.1 and 1000 megohms minimum after 24 hours of conditioning per EIA-364-31.

Salt Spray — Connectors shall meet the performance requirements of contact resistance, mating and unmating forces, and contact retention after being subjected to the 48 hour 5% solution salt spray test per EIA-364-26, Condition B.

Fluid Immersion — Unmated connectors after being fully immersed in one of the following fluids, for the prescribed time, will mate at a force of 10 oz. [2.78N] times the number of contacts or less: Perchloroethylene, 2 hours;

Lubricating oil per MIL-L-23699, 20 hours.

Insert Retention — Inserts will withstand a 50 lb. [34N/cm²] per square inch load in either direction.

Crimp Termination Tensile Strength — (Unassembled contacts with crimped stranded wire terminations) Wires will not pull out of contacts when the following axial loads are applied: 24 AWG, 5 lbs. [22.24N]; 26 AWG, 4 lbs. [17.79N]; 28 AWG, 3 lbs. [13.34N]

Outgassing — When tested in accordance with SP-R-0022, Total Mass Loss (TML) shall be less than 1.0% and Volatile Condensable Material (VCM) shall be less than 0.1% of the original specimen.

Materials and Finishes

Contacts — Copper alloy plated with .000050 [.00127] gold over copper flash per MIL-G-45204 Type II.

Hardware — see pages 5-61 and 5-62.

MCK-Metal Shell —

Insulator — Liquid crystal polymer (LCP) per ASTM D5138, or Polyphenylene sulfide per ASTM D4067 or MIL-M-24519

Interfacial Seal — Fluorosilicone Rubber per MIL-R-25988 (socket side only)

Body Shell — Aluminum alloy-high grade plated

Cadmium per QQ-P-416

Nickel, electroless per AMS 2404

Transition Block Shell —

Liquid crystal polymer (LCP) per ASTM D5138, or Polyphenylene sulfide per ASTM D4067 or MIL-M-24519

Potting Material — Epoxy, Black

MCD-Plastic Shell —

Insulator/Body — Polyester, glass filled per MIL-M-24519, Liquid crystal polymer (LCP) per ASTM D5138, or Polyphenylene sulfide per ASTM D4067 or MIL-M-24519

Wire Terminations —

Solid copper per QQ-W-343 gold plated per MIL-DTL-45204

Stranded PTFE insulated per MIL-W-16878

Stranded PTFE insulated per MIL-W-22759/11, /33

Solid copper per QQ-W-343, solder dipped (Transition block)

MCDM-Metal Shell —

Insulator — Diallyl Phthalate per MIL-M-14, Type SDG-F

Body Shell — Aluminum alloy—high grade, nickel plated

Twist Pin, Pin and Socket Contacts

The contact spring member normally found in socket contacts has been eliminated by creating a breathing helical spring principle on the pin contact — smaller, more durable contacts can be manufactured economically.



Wire range 24-36 AWG solid & stranded.

MIL-DTL-83513 — Only the descriptive legend in bold italic is applicable to current MIL-DTL-83513 configurations; MIL-DTL-83513/1 through /4 — MCKS metal shell; MIL-DTL-83513/6 through /9 — MCD plastic shell.

In addition, MIL-DTL-83513 solid copper wire termination is specified 25 AWG, 0.5; and 1.0 [25.4] lengths only and stranded insulated wire termination is specified 26 AWG, 18.0 [457.2] and 36.0 [914.4] lead lengths only. Hardware for MIL-DTL-83513 configurations is specified separately by the M83513/5-XX designation. M83513/1 through /4 and /6 through /9 specify no hardware (B). Mounting/mating hardware is shown on page 5-61 with the applicable military nomenclature. The MICRODOT catalog part number for a MIL-DTL-83513 configuration may be constructed to include the desired hardware.

See pages 5-78 through 5-82 for M83513/ cross reference.

MICRODOT How To Specify MCK and MCD Connectors

Metal Shell

Connector Series **MCK** — **N1** — **B** — **37** — **P**

MCK — Twist Pin & Drawn Socket
MCKS — Stamp & Formed Pin & Socket

Shell Finish
C1 — Cadmium, Clear
C2 — Cadmium, Yellow Chromate
N1 — Nickel, Electroless

Hardware (See Pages 5-79 and 5-80)
B — No Hardware
F — Float Bushing
KM — Jackscrew, Slotted Head, High Profile (9-51)
HM — Jackscrew, Slotted Head, High Profile (100)
LM — Jackscrew, Slotted Head, Low Profile (9-51)
JM — Jackscrew, Slotted Head, Low Profile (100)
QM — Jackscrew, Allen Head, High Profile (9-51)
TM — Jackscrew, Allen Head, High Profile (100)
RM — Jackscrew, Allen Head, Low Profile (9-51)
NM — Jackscrew, Allen Head, Low Profile (100)
P — Jackpost Assembly (9-51)
S — Jackpost Assembly (100)
X — Lockscrew, Slotted Head
Y — Lockscrew, Allen Head
Z — Clip and Key (Clip Mount Only)

Layout
9, 15, 21, 25, 31, 37, 51, 100
See contact arrangement

Contact Type
P — Pin (Plug)
S — Socket (Receptacle)

S — Solder pots 26 AWG max.
X — Special, not described by legend.

Lead Length in Inches (Min.) **1** — **18.0**

Insulation Color or Finish
1 — All white wire
2 — All yellow wire
3 — All gray wire
4 — Gold plated
5 — Tin dipped gold plated
6 — Bare (unfinished)
7 — Color coded per MIL-STD-681, System 1
8 — Special color code
9 — 10 Solid color repeating per MIL-DTL-83513

Wire Type
Per MIL-W-16878
A — Type E, 7 strand
B — Type ET, 7 strand
C — Type E, 19 strand
D — Type ET, 19 strand
F — 7 strand per MIL-W-22759/11 (28 AWG only)
G — 19 strand per MIL-C-22759/11 (26 AWG only), 24 AWG
L — Copper, Solid (25 AWG only)
Q — Stranded per MIL-W-22759/33 (26 AWG only)

Wire Size
4 — 24 AWG 5 — 25 AWG 6 — 26 AWG 8 — 28 AWG 0 — 30 AWG

Plastic Shell

Connector Series **MCD** — **R3** — **B** — **37** — **P**

Insulator Type/Material
G2 — Clip Mount, polyester, natural
G3 — Screw Mount, polyester, natural, .093 Flg.
R2 — Clip Mount, Ryton
R3 — Screw Mount, Liquid Crystal Polymer or Polyphenylene Sulfide

Hardware (See Pages 5-79 and 5-80)
B — No Hardware
F — Float Bushing
KM — Jackscrew, Slotted Head, High Profile
LM — Jackscrew, Slotted Head, Low Profile
QM — Jackscrew, Allen Head, High Profile
RM — Jackscrew, Allen Head, Low Profile
P — Jackpost Assembly
X — Lockscrew, Slotted Head
Y — Lockscrew, Allen Head
Z — Clip and Key (Clip Mount Only)

Layout
9, 15, 21, 25, 31, 37, 51
See contact arrangement

Contact Type
P — Pin (Plug)
S — Socket (Receptacle)

S — Solder pots 26 AWG max.
X — Special — Does not fit description below.

Lead Length in Inches (Min.) **1** — **18.0**

Insulation Color or Finish
1 — All white wire
2 — All yellow wire
3 — All gray wire
4 — Gold plated
5 — Tin dipped gold plated
6 — Bare (unfinished)
7 — Color coded per MIL-STD-681, System 1
8 — Special color code
9 — 10 Solid color repeating per MIL-DTL-83513

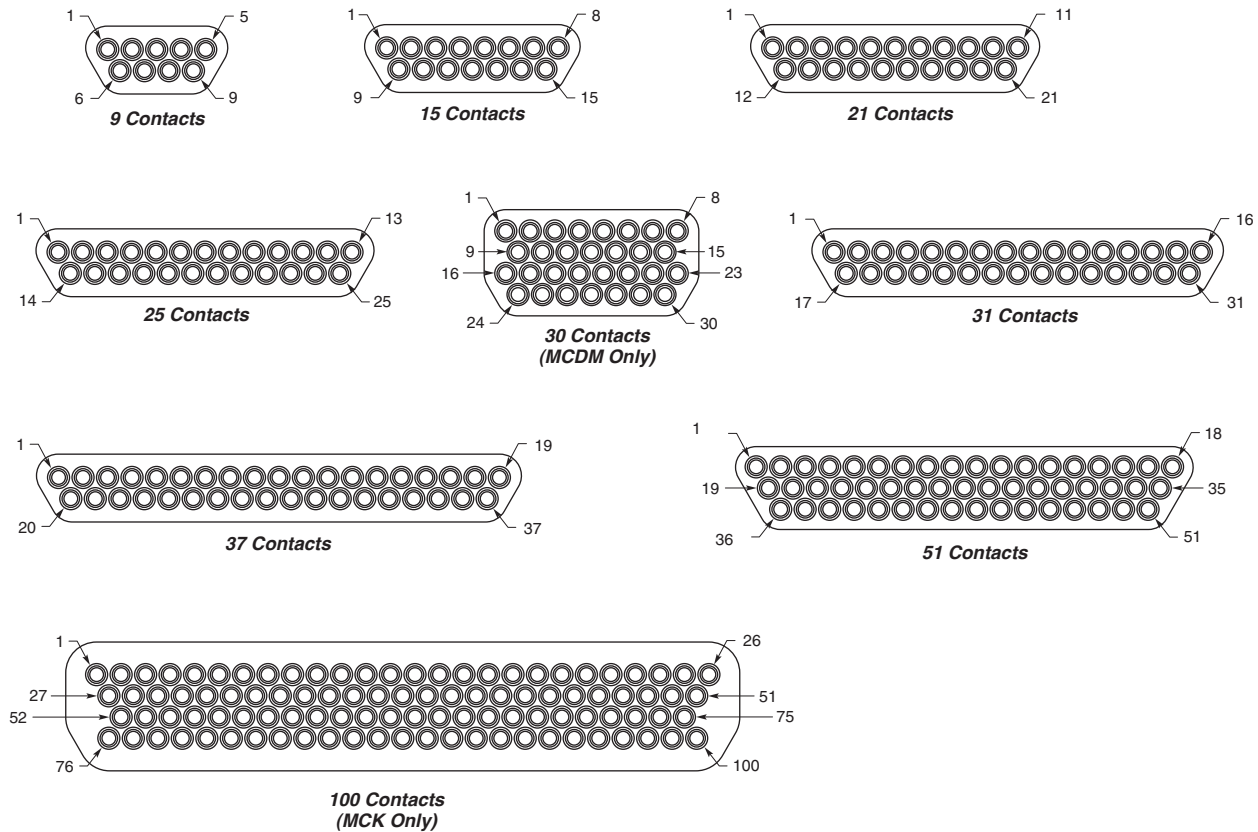
Wire Type
Per MIL-W-16878
A — Type E, 7 strand
B — Type ET, 7 strand
C — Type E, 19 strand
D — Type ET, 19 strand
F — 7 strand per MIL-W-22759/11 (28 AWG only)
G — 19 strand per MIL-C-22759/11 (26 AWG only), 24 AWG
L — Copper, Solid (25 AWG only)
Q — Stranded per MIL-W-22759/33 (26 AWG only)

Wire Size
4 — 24 AWG 5 — 25 AWG 6 — 26 AWG 8 — 28 AWG 0 — 30 AWG

Note: Items in bold italic are qualified to MIL-DTL-83513.

MICRODOT Contact Arrangements

Face View of Pin Insert (Socket Side is Mirror Image)



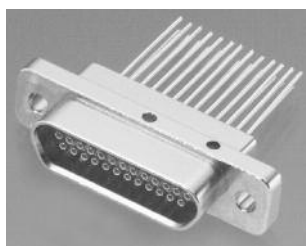
Note: MCK metal shells are not designed to intermate or interchange with MCD plastic shells. If metal/plastic intermating is desired, use MCDM Series Metal Shell on pages 5-72 and 5-73 with MCD Series Plastic Shell on page 5-58.

MICRODOT MCK Series Metal Shell Connectors

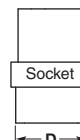
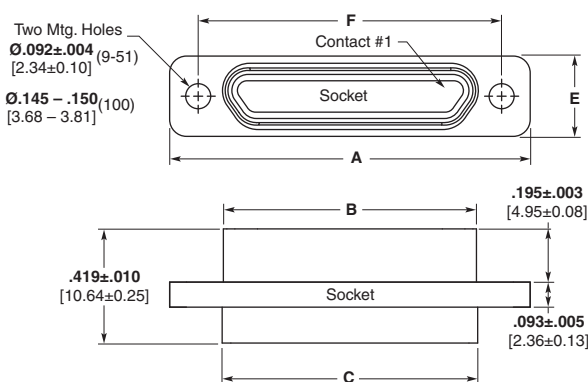
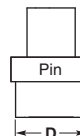
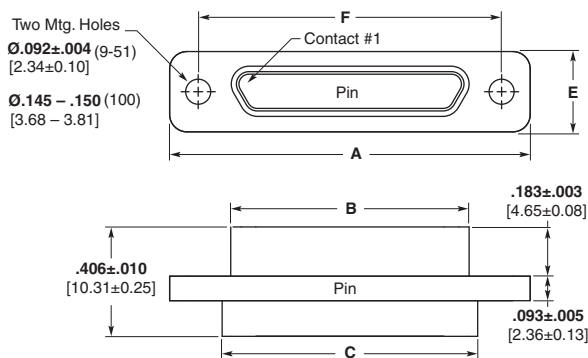
Dimensions per MIL-DTL-83513



**Plug
(Pin side)**



**Receptacle
(Socket side)**

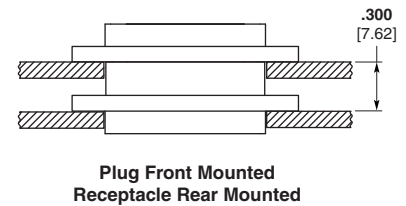
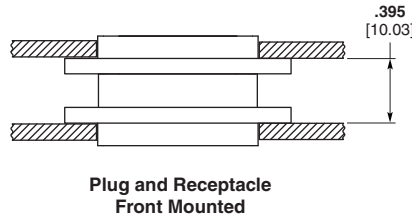
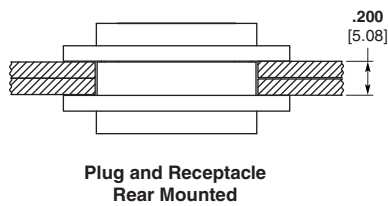


Part Number	A ± .010 [.254]	B Max.	C +.010 [.254] -.018 [.457]	D Max	E ±.010 [.254]	F ± .005 [.127]
MCK**- 9P***	.775 19.68	.3338 8.48	.390 9.91	.270 6.86	.298 7.57	.565 14.35
MCK**- 9S***	.775 19.68	.4018 10.21	.390 9.91	.270 6.86	.298 7.57	.565 14.35
MCK**- 15P***	.925 23.50	.4838 12.29	.540 13.72	.270 6.86	.298 7.57	.715 18.16
MCK**- 15S***	.925 23.50	.5518 14.02	.540 13.72	.270 6.86	.298 7.57	.715 18.16
MCK**- 21P***	1.075 27.30	.6338 16.10	.690 17.53	.270 6.86	.298 7.57	.865 21.97
MCK**- 21S***	1.075 27.30	.7018 18.05	.690 17.53	.270 6.86	.298 7.57	.865 21.97
MCK**- 25P***	1.175 29.84	.7338 18.64	.790 20.07	.270 6.86	.298 7.57	.965 24.51
MCK**- 25S***	1.175 29.84	.8018 20.37	.790 20.07	.270 6.86	.298 7.57	.965 24.51
MCK**- 31P***	1.325 33.66	.8838 22.45	.940 23.88	.270 6.86	.298 7.57	1.115 28.32
MCK**- 31S***	1.325 33.66	.9518 24.18	.940 23.88	.270 6.86	.298 7.57	1.115 28.32
MCK**- 37P***	1.475 37.46	1.0338 26.26	1.090 27.69	.270 6.86	.298 7.57	1.265 32.13
MCK**- 37S***	1.475 37.46	1.1018 27.99	1.090 27.69	.270 6.86	.298 7.57	1.265 32.13
MCK**- 51P***	1.425 36.20	.9838 24.99	1.040 26.42	.310 7.87	.341 8.66	1.215 30.86
MCK**- 51S***	1.425 36.20	1.0518 26.72	1.040 26.42	.310 7.87	.341 8.66	1.215 30.86
MCK**- 100P***	2.160 54.86	1.3838 35.15	1.432 36.37	.360 9.15	.384 9.75	1.800 45.71
MCK**- 100S***	2.160 54.86	1.508 38.30	1.432 36.37	.360 9.15	.384 9.75	1.800 45.71

P = Pin. S = Socket

MICRODOT MCK Series Metal Shell Connectors Panel Mounting — Cutout Dimensions

Panel Mounting Dimensions — MCK



Panel Cutout Dimensions — MCK

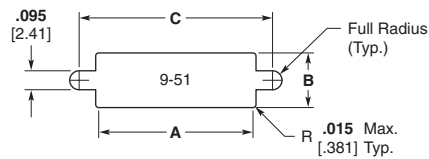


Figure 1
Front Mounting

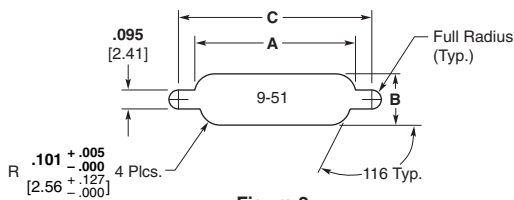
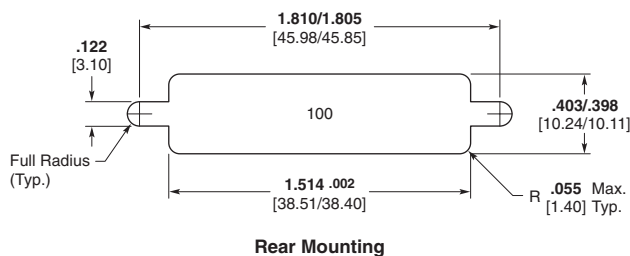
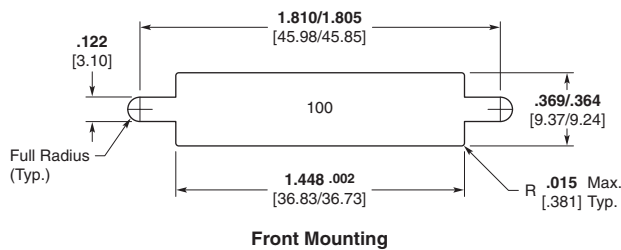


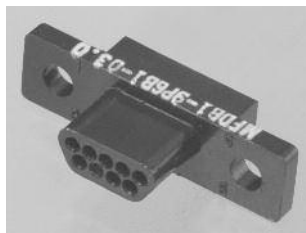
Figure 2
Rear Mounting



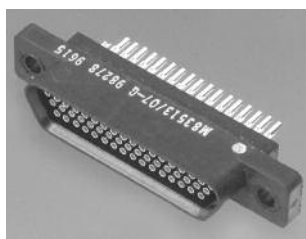
Number of Contacts	Fig.	A + .004 [.102] - .000 [.000]	B + .004 [.102] - .000 [.000]	C + .005 [.127] - .000 [.000]
9	1	.404 10.26	.274 6.96	.570 14.48
	2	.406 10.31	.257 6.53	.570 14.48
15	1	.554 14.07	.274 6.96	.720 18.29
	2	.556 14.12	.257 6.53	.720 18.29
21	1	.704 17.88	.274 6.96	.870 22.10
	2	.706 17.93	.257 6.53	.870 22.10
25	1	.804 20.42	.274 6.96	.970 24.64
	2	.806 20.47	.257 6.53	.970 24.64
31	1	.954 24.23	.274 6.96	1.120 28.45
	2	.956 24.28	.257 6.53	1.120 28.45
37	1	1.104 28.04	.274 6.96	1.270 32.26
	2	1.106 28.09	.257 6.53	1.270 32.26
51	1	1.054 26.77	.314 7.98	1.220 30.99
	2	1.056 26.82	.300 7.62	1.220 30.99

MICRODOT MCD Series Plastic Shell Connectors

Screw Mount Dimensions Per MIL-DTL-83513

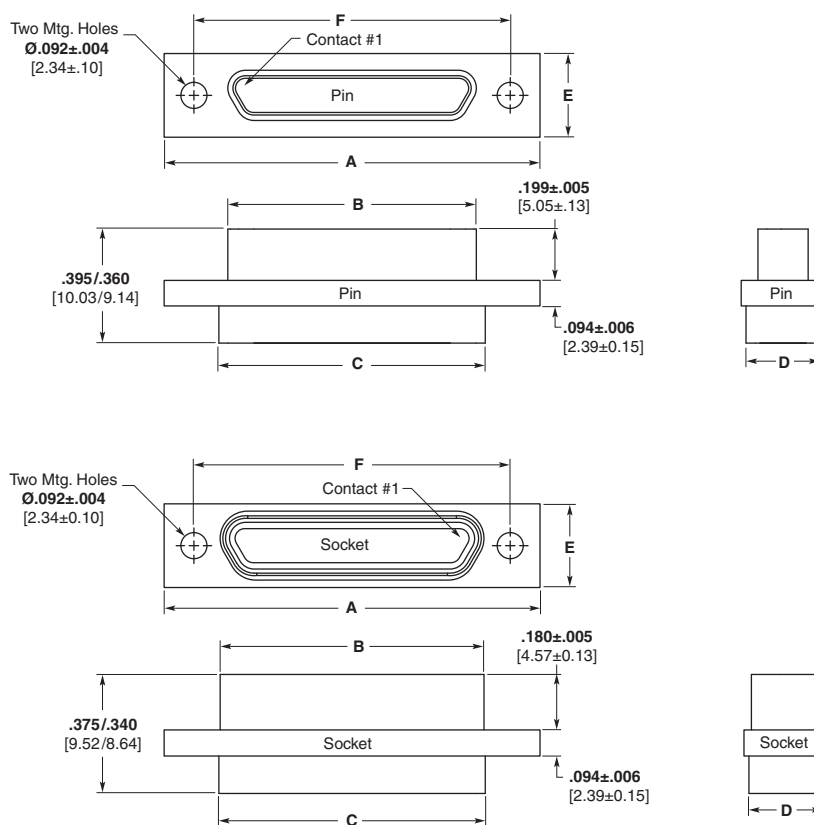


**Plug
(Pin side)**



**Receptacle
(Socket side)**

Liquid Crystal Polymer or Polyphenylene Sulfide — MCDR3* per MIL-DTL-83513



Note: MCD Plastic Screw Mount Series is intermateable with MCDM Metal Series Connectors (Pages 5-72 and 5-73).

Part Number	A ± .010 [.254]	B Max.	C +.010 [.254] -.018 [.457]	D Max	E ±.010 [.254]	F ± .005 [.127]	Avg. Weight lbs. ± 5% [grams]
MCD**- 9P***	.778 19.76	.2918 7.412	.398 10.11	.173 4.39	.208 5.28	.565 14.35	.0017 0.77
MCD**- 9S***	.778 19.76	.3798 9.647	.398 10.11	.173 4.39	.208 5.28	.565 14.35	.0016 0.72
MCD**- 15P***	.928 23.57	.4418 11.222	.548 13.92	.173 4.39	.208 5.28	.715 18.16	.0024 1.08
MCD**- 15S***	.928 23.57	.5298 13.457	.548 13.92	.173 4.39	.208 5.28	.715 18.16	.0023 1.04
MCD**- 21P***	1.078 27.38	.5918 15.032	.698 17.73	.173 4.39	.208 5.28	.865 21.97	.0035 1.59
MCD**- 21S***	1.078 27.38	.6798 17.267	.698 17.73	.173 4.39	.208 5.28	.865 21.97	.0034 1.54
MCD**- 25P***	1.178 29.92	.6918 17.572	.798 20.27	.173 4.39	.208 5.28	.965 24.51	.0042 1.90
MCD**- 25S***	1.178 29.92	.7798 19.807	.798 20.27	.173 4.39	.208 5.28	.965 24.51	.0037 1.67
MCD**- 31P***	1.328 33.73	.8418 21.382	.948 24.08	.173 4.39	.208 5.28	1.115 28.32	.0053 2.40
MCD**- 31S***	1.328 33.73	.9298 23.617	.948 24.08	.173 4.39	.208 5.28	1.115 28.32	.0048 2.17
MCD**- 37P***	1.478 37.54	.9918 25.192	1.098 27.89	.173 4.39	.208 5.28	1.265 32.13	.0057 2.58
MCD**- 37S***	1.478 37.54	1.0798 27.427	1.098 27.89	.173 4.39	.208 5.28	1.265 32.13	.0051 2.31
MCD**- 51P***	1.428 36.27	.9418 23.922	1.048 26.62	.220 5.59	.250 6.35	1.215 30.86	.0072 3.26
MCD**- 51S***	1.428 36.27	1.0298 26.157	1.048 26.62	.220 5.59	.250 6.35	1.215 30.86	.0063 2.85

P = Pin, S = Socket

Note: Weight given is with .500 [12.7] uninsulated, solid, 24 AWG gold plated copper pigtailed.

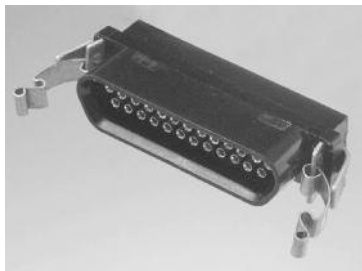
*See “How to Specify” for description, on page 5-54.

MICRODOT MCD Series Plastic Shell Connectors (Continued)

Clip Mount — MCD

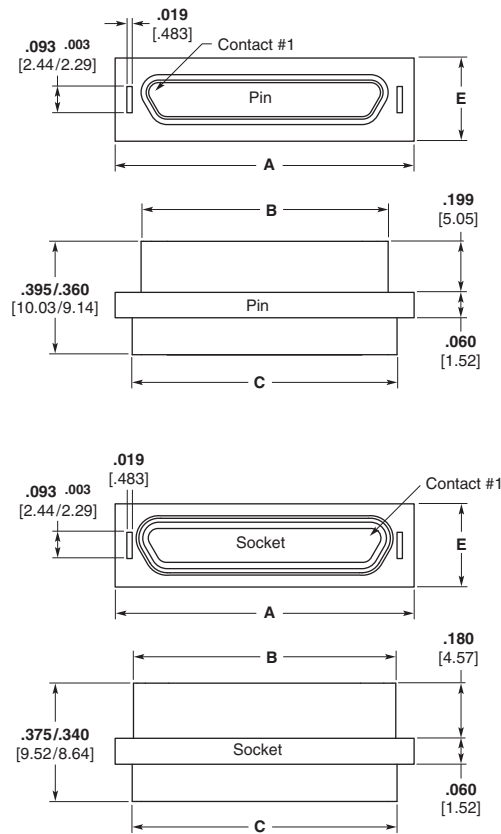


Plug
(Pin side)



Receptacle
(Socket side)

Note: Clip Mount not covered by current issue of MIL-DTL-83513.



Part Number	A ±.005 [.127]	B Max.	C ±.010 [.254]	D ±.010 [.254]	E ±.005 [.127]	Avg. Weight lbs. ± 5% [grams]
MCD**- 9P***	.506 12.85	.2918 74.12	.398 10.11	.165 4.19	.208 5.28	.0017 0.77
MCD**- 9S***	.506 12.85	.3798 96.47	.398 10.11	.165 4.19	.208 5.28	.0016 0.72
MCD**- 15P***	.656 16.66	.4418 112.22	.548 13.92	.165 4.19	.208 5.28	.0024 1.08
MCD**- 15S***	.656 16.66	.5298 134.57	.548 13.92	.165 4.19	.208 5.28	.0023 1.04
MCD**- 21P***	.806 20.47	.5918 150.32	.698 17.73	.165 4.19	.208 5.28	.0035 1.59
MCD**- 21S***	.806 20.47	.6798 172.67	.698 17.73	.165 4.19	.208 5.28	.0034 1.54
MCD**- 25P***	.906 23.01	.6918 175.72	.798 20.27	.165 4.19	.208 5.28	.0042 1.90
MCD**- 25S***	.906 23.01	.7798 198.07	.798 20.27	.165 4.19	.208 5.28	.0037 1.67
MCD**- 31P***	1.056 26.82	.8418 213.82	.948 24.08	.165 4.19	.208 5.28	.0053 2.40
MCD**- 31S***	1.056 26.82	.9298 236.17	.948 24.08	.165 4.19	.208 5.28	.0048 2.17
MCD**- 37P***	1.206 30.63	.9918 251.92	1.098 27.89	.165 4.19	.208 5.28	.0057 2.58
MCD**- 37S***	1.206 30.63	1.0798 274.27	1.098 27.89	.165 4.19	.208 5.28	.0051 2.31
MCD**- 51P***	1.156 29.36	.9418 239.22	1.048 26.62	.208 5.28	.250 6.35	.0072 3.26
MCD**- 51S***	1.156 29.36	1.0298 261.57	1.048 26.62	.208 5.28	.250 6.35	.0063 2.85

P = Pin, S = Socket

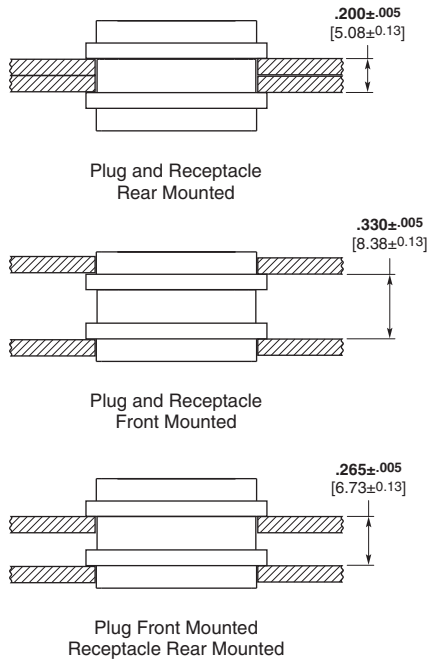
Note: Weight given is with .500 [12.7] uninsulated, solid, 24 AWG gold plated copper pigtailed.

*See "How to Specify" for description, on page 5-54.

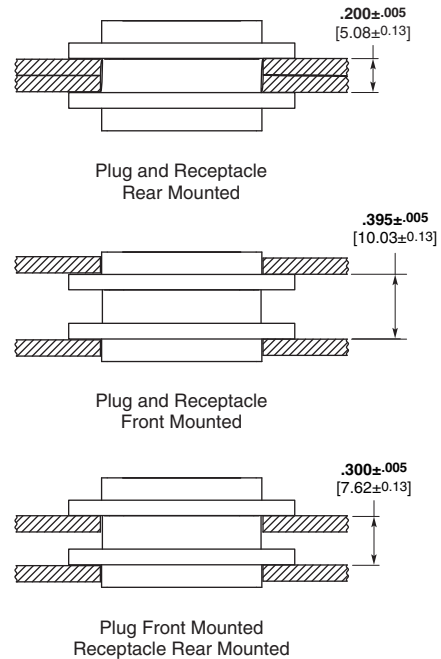
MICRODOT MCD Series Plastic Shell Connectors Panel Mounting — Cutout Dimensions

Panel Mounting Dimensions — MCD

Clip Mount

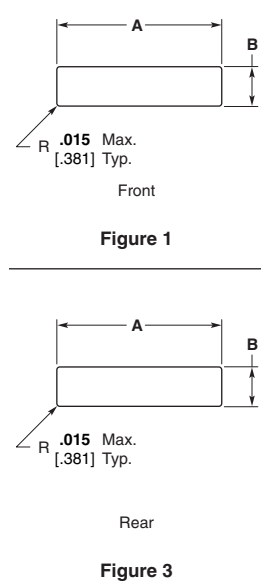


Screw Mount

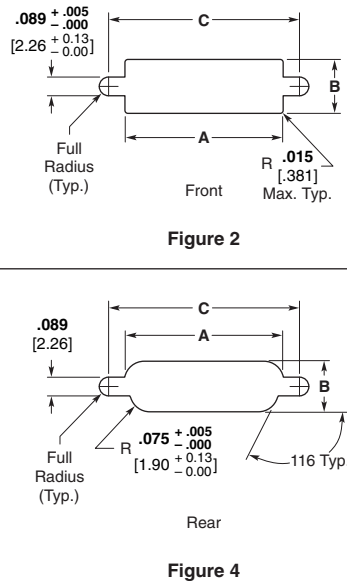


Panel Cutout Dimensions — MCD

Clip Mounting



Screw Mounting



Notes: Front mounting preferred.

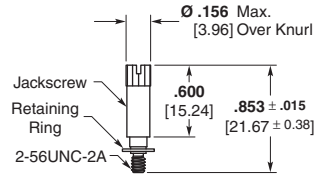
Number of Contacts	Fig.	A	B	C
		+ .004 [.102] - .000 [.000]	+ .004 [.102] - .000 [.000]	+ .005 [.127] - .000 [.000]
9	1	.438 [11.13]	.177 [4.50]	—
	2	.412 [10.46]	.177 [4.50]	.570 [14.48]
	3	.438 [11.13]	.222 [5.64]	—
	4	.384 [9.75]	.222 [5.64]	.570 [14.48]
15	1	.588 [14.93]	.177 [4.50]	—
	2	.562 [14.27]	.177 [4.50]	.720 [18.29]
	3	.588 [14.93]	.222 [5.64]	—
	4	.534 [13.56]	.222 [5.64]	.720 [18.29]
21	1	.738 [18.75]	.177 [4.50]	—
	2	.712 [18.08]	.177 [4.50]	.870 [22.10]
	3	.738 [18.75]	.222 [5.64]	—
	4	.684 [17.37]	.222 [5.64]	.870 [22.10]
25	1	.838 [21.29]	.177 [4.50]	—
	2	.812 [20.62]	.177 [4.50]	.970 [24.64]
	3	.838 [21.29]	.222 [5.64]	—
	4	.784 [19.91]	.222 [5.64]	.970 [24.64]
31	1	.988 [25.10]	.177 [4.50]	—
	2	.962 [24.43]	.177 [4.50]	1.120 [28.45]
	3	.988 [25.10]	.222 [5.64]	—
	4	.934 [23.72]	.222 [5.64]	1.120 [28.45]
37	1	1.138 [28.91]	.177 [4.50]	—
	2	1.112 [28.24]	.177 [4.50]	1.270 [32.26]
	3	1.138 [28.91]	.222 [5.64]	—
	4	1.084 [27.53]	.222 [5.64]	1.270 [32.26]
51	1	1.088 [27.64]	.224 [5.69]	—
	2	1.062 [26.97]	.224 [5.69]	1.220 [30.99]
	3	1.088 [27.64]	.264 [6.71]	—
	4	1.034 [26.26]	.264 [6.71]	1.220 [30.99]

MICRODOT Mounting and Coupling Hardware

For Screw Mount MCK, MCKS, MCD and MCDM

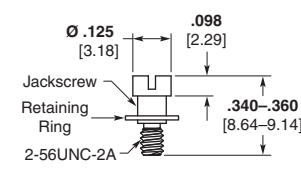
9-51 Contacts Slot Head

(KM)



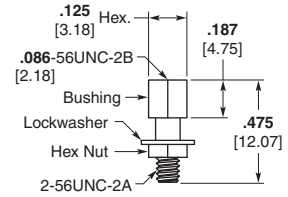
Part Number 5-1532137-8
Jackscrew Assembly
High Profile
M83513/5-06
(KM) S96-0002-0084

(LM)



Part Number 5-1532137-7
Jackscrew Assembly
Low Profile
M83513/5-05
(LM) S96-0002-0085

(P)

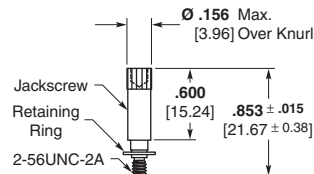


Part Number 5-1532137-9
Jackpost Assembly
(P) S96-0002-0009
M83513/5-07

P mates with KM, LM, QM and RM Jackscrew Assemblies.

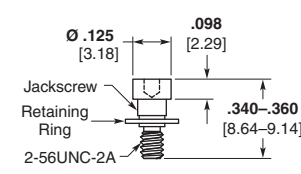
9-51 Contacts 1/16" Allen Head

(QM)



Part Number 5-1532137-6
Jackscrew Assembly
High Profile
M83513/5-03
(QM) S96-0002-0086

(RM)



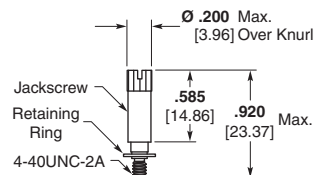
Part Number 5-1532137-5
Jackscrew Assembly
Low Profile
M83513/5-02
(RM) S96-0002-0087

Notes:

1. Jackpost Assemblies will accommodate .094 [2.39] max. thickness panel.
2. Letter(s) in parentheses is to assist in ordering hardware with the connector (See "How To Specify" page 5-54).
3. Items in **bold italic** are qualified to MIL-DTL-83513.
4. Mounting torque values and mating torque values are per MIL-DTL-83513/5.

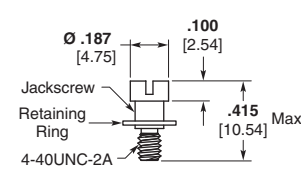
100 Contacts Slot Head

(HM)



Part Number 6-1532137-3
Jackscrew Assembly
High Profile
M83513/5-16
(HM) S96-0002-0088

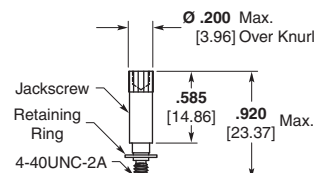
(JM)



Part Number 6-1532137-2
Jackscrew Assembly
Low Profile
M83513/5-15
(JM) S96-0002-0089

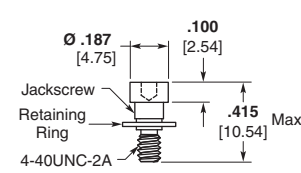
100 Contacts 1/16" Allen Head

(TM)



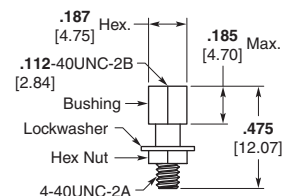
Part Number 6-1532137-1
Jackscrew Assembly
High Profile
M83513/5-13
(TM) S96-0002-0090

(NM)



Part Number 6-1532137-0
Jackscrew Assembly
Low Profile
M83513/5-12
(NM) S96-0002-0091

(S)



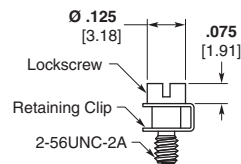
Part Number 6-1532137-4
Jackpost Assembly
(S) S96-0002-0060
M83513/5-17

S mates with HM, JM, TM and NM Jackscrew Assemblies.

MICRODOT Mounting and Coupling Hardware (Continued)

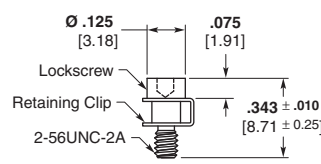
**For Screw Mount MCK,
MCD and MCDM** (Continued)

**Slot Head
(X)**



**Part Number 4-1532137-3
Lockscrew Assembly
096-0002-0008**

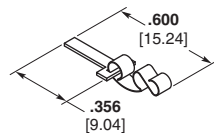
**1/16" Allen Head
(Y)**



**Part Number 1495164-1
Lockscrew Assembly
096-0002-0013**

For Clip Mount — MCD

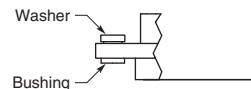
(Z)



**Part Number 1466018-1
Mounting Key and Clip
P/N 096-0001-0000
(2 Required)**

**For Float Mount — MCK,
MCD and MCDM**

(F)



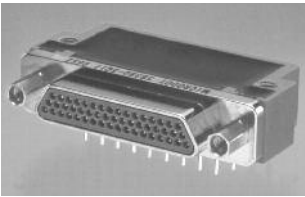
**Float Mount Bushing
(Factory Installed)**

Notes:

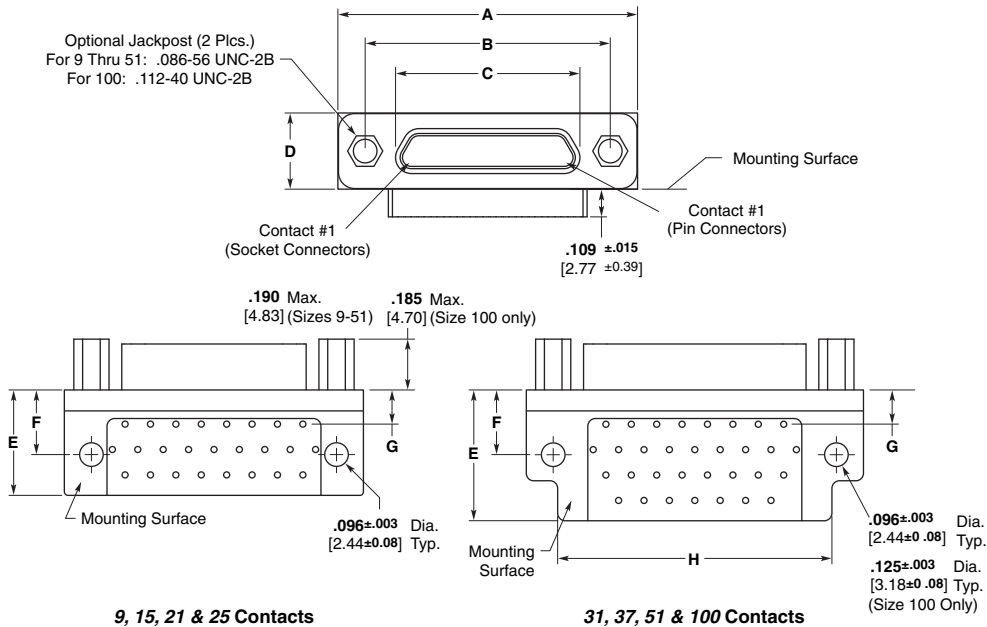
1. Jackpost Assemblies will accommodate .094 [2.39] max. thickness panel.
2. Letter(s) in parentheses is to assist in ordering hardware with the connector (See "How To Specify" page 5-54).
3. Hardware ordered separately should be ordered in pairs; i.e. 2 pcs. P/N 096-0002-0013 per connector half.

MICRODOT MCK Transition Blocks

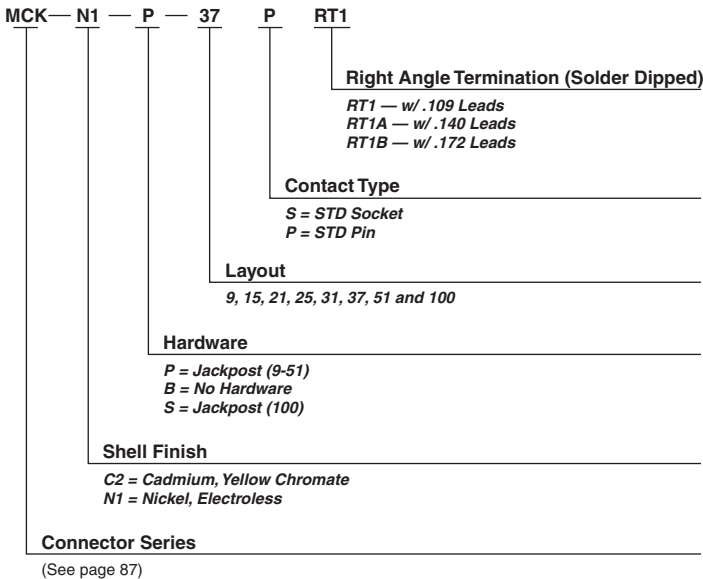
RT1 — Right-Angle Termination Configuration



MIL-DTL-83513/10 through /15 configurations. 90° — Narrow Profile termination configurations. See pages 5-78 to 5-82 for M83513 cross references.



How To Specify



- Notes:**
1. For terminal identification see page 5-65.
 2. Grid pattern for all configurations is .100 x .100 [2.54 x 2.54].
 3. Lead lengths shown are for RT1.
 4. **Items in bold italic are qualified to MIL-DTL-83513.**

MICRODOT MCK Transition Blocks (Continued)

RT1 — Right-Angle Termination Configuration

(Continued)

Part Number	A Max.	B ± .005 [.127]	C Max.	D Max.	E Max.	F +.010 [.254]	G +.010 [.254]	H Max.
<i>MCK-**-*- 9PRT1</i>	.787 19.99	.565 14.35	.3338 8.48	.308 7.83	.425 10.80	.250 6.35	.230 5.84	—
<i>MCK-**-*- 9SRT1</i>	.787 19.99	.565 14.35	.4018 10.21	.308 7.83	.425 10.80	.250 6.35	.230 5.84	—
<i>MCK-**-*- 15PRT1</i>	.937 23.80	.715 18.16	.4838 12.29	.308 7.83	.425 10.80	.250 6.35	.130 3.30	—
<i>MCK-**-*- 15SRT1</i>	.937 23.80	.715 18.16	.5518 14.02	.308 7.83	.425 10.80	.250 6.35	.130 3.30	—
<i>MCK-**-*- 21PRT1</i>	1.087 27.61	.865 21.97	.6338 16.10	.308 7.83	.425 10.80	.250 6.35	.130 3.30	—
<i>MCK-**-*- 21SRT1</i>	1.087 27.61	.865 21.97	.7018 17.83	.308 7.83	.425 10.80	.250 6.35	.130 3.30	—
<i>MCK-**-*- 25PRT1</i>	1.187 30.15	.965 24.51	.7338 18.64	.308 7.83	.425 10.80	.250 6.35	.130 3.30	—
<i>MCK-**-*- 25SRT1</i>	1.187 30.15	.965 24.51	.8018 20.37	.308 7.83	.425 10.80	.250 6.35	.130 3.30	—
<i>MCK-**-*- 31PRT1</i>	1.337 33.96	1.115 28.32	.8838 22.45	.308 7.83	.525 13.34	.250 6.35	.130 3.30	1.090 27.69
<i>MCK-**-*- 31SRT1</i>	1.337 33.96	1.115 28.32	.9518 24.18	.308 7.83	.525 13.34	.250 6.35	.130 3.30	1.090 27.69
<i>MCK-**-*- 37PRT1</i>	1.487 37.77	1.265 32.13	1.0338 26.26	.308 7.83	.525 13.34	.250 6.35	.130 3.30	1.190 30.23
<i>MCK-**-*- 37SRT1</i>	1.487 37.77	1.265 32.13	1.1018 27.99	.308 7.83	.525 13.34	.250 6.35	.130 3.30	1.190 30.23
<i>MCK-**-*- 51PRT1</i>	1.435 36.45	1.215 30.86	.9838 24.99	.351 8.92	.660 16.76	.300 7.62	.150 3.81	1.230 31.24
<i>MCK-**-*- 51SRT1</i>	1.435 36.45	1.215 30.86	1.0518 26.72	.351 8.92	.660 16.76	.300 7.62	.150 3.81	1.230 31.24
<i>MCK-**-*- 100PRT1</i>	2.175 55.25	1.800 45.72	1.3838 35.15	.394 10.01	1.010 25.65	.400 10.16	.200 5.08	1.825 46.36
<i>MCK-**-*- 100SRT1</i>	2.175 55.25	1.800 45.72	1.508 38.30	.394 10.01	1.010 25.65	.400 10.16	.200 5.08	1.825 46.36

P = Pin, S = Socket

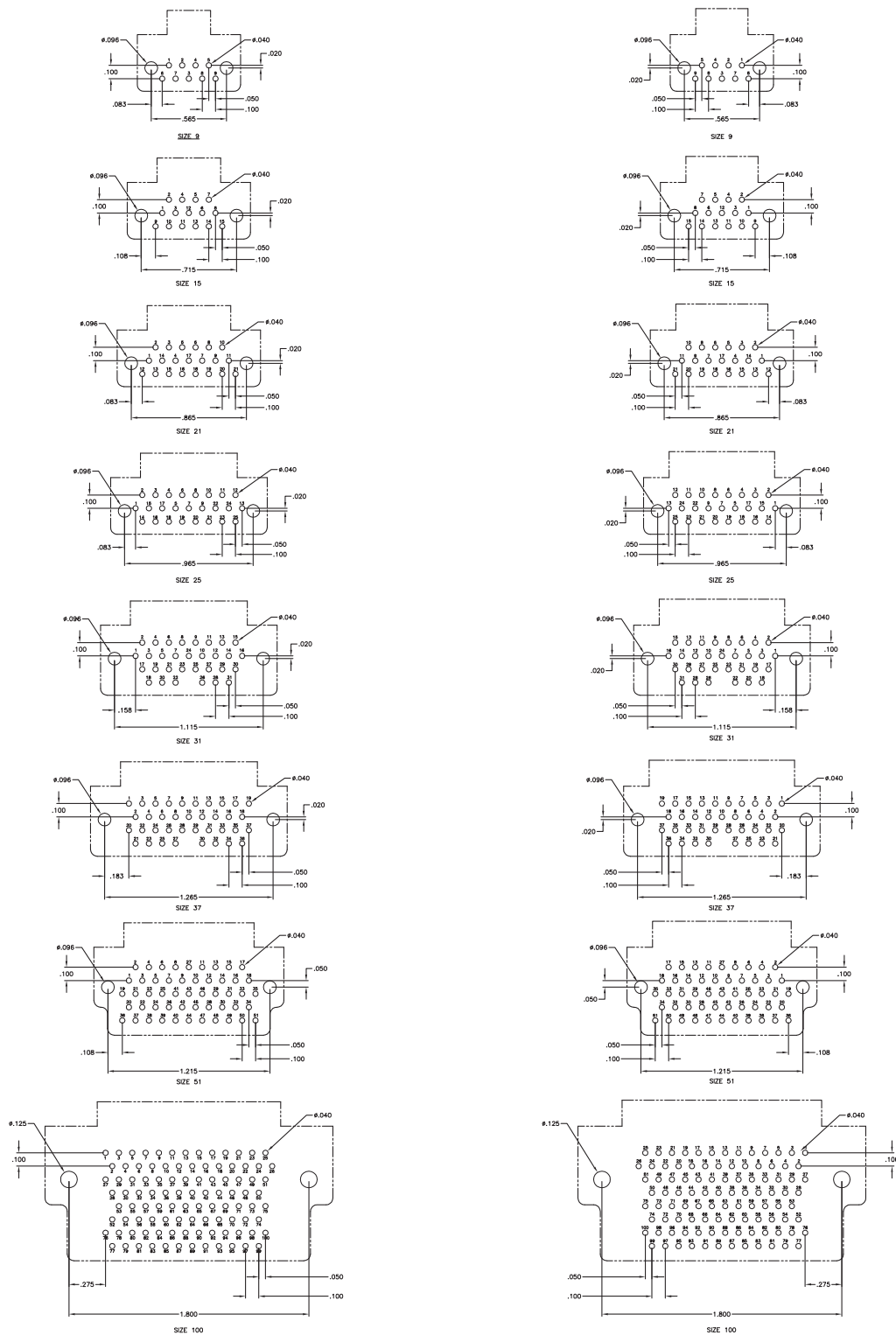
Note: Items in bold italic are qualified to MIL-DTL-83513.

MICRODOT MCK Transition Blocks (Continued)

RT1 — Right-Angle Termination Configuration

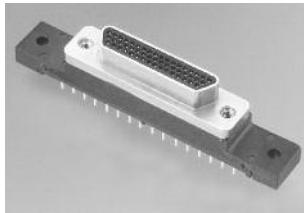
(Continued)

View is of termination side of plug connector. For receptacle, use mirror image. (Except 100 contacts)

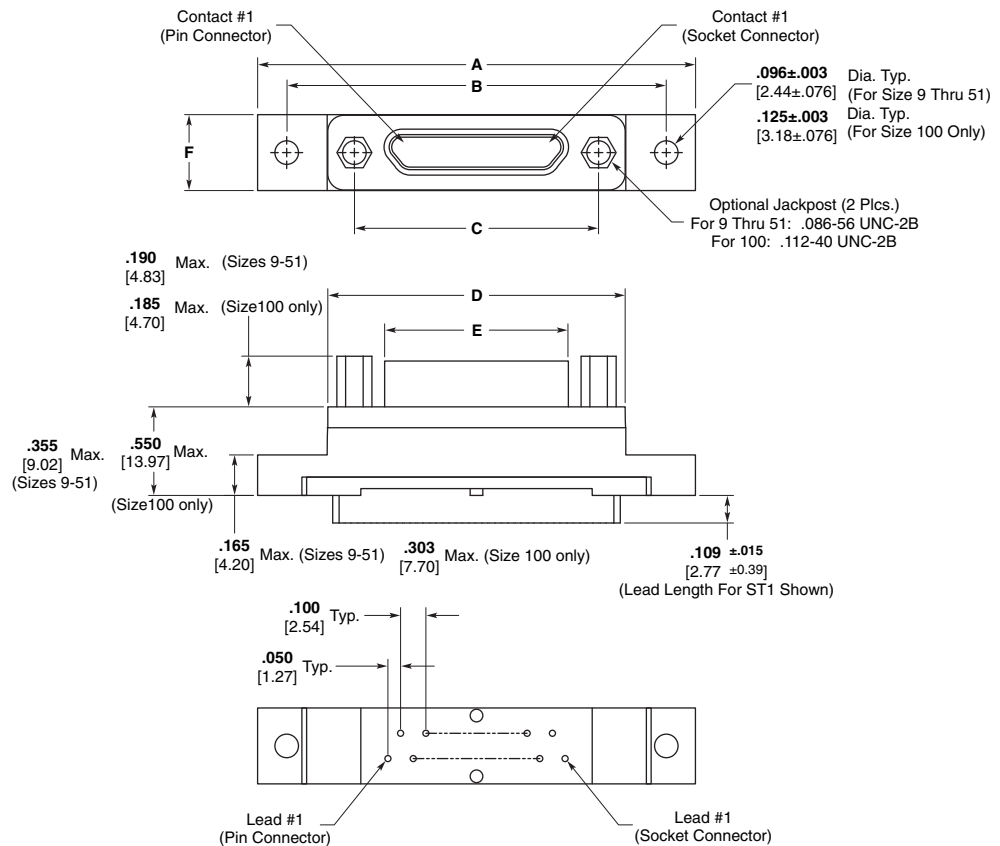


MICRODOT MCK Transition Blocks (Continued)

ST1 — Straight Termination Configuration



MIL-DTL-83513/22 through /27 configurations. 180° — Narrow Profile termination configurations. See pages 5-78 to 5-82 for M83513 cross references.



How To Specify

MCK — N1 — P — 37 — P — ST1

Straight Termination (Solder Dipped)

ST1 — w/ .109 Leads
ST1A — w/ .140 Leads
ST1B — w/ .172 Leads

Contact Type

S = STD Socket
P = STD Pin

Layout

9, 15, 21, 25, 31, 37, 51 and 100

Hardware

P = Jackpost (9-51)
B = No Hardware
S = Jackpost (100)

Shell Finish

C2 = Cadmium, Yellow Chromate
N1 = Nickel, Electroless

Connector Series

(See page 87)

Notes:

1. For terminal identification see page 5-81.
2. Grid pattern for all configurations is .100 x .100 [2.54 x 2.54].
3. Lead lengths shown are for ST1.
4. Items in bold italic are qualified to MIL-DTL-83513.

MICRODOT MCK Transition Blocks (Continued)

ST1 — Straight Termination Configuration (Continued)

Part Number	A Max.	B ± .007 [.178]	C ± .005 [.127]	D Max.	E Max.	F Max.
<i>MCK-**-*- 9PST1</i>	1.390 35.31	1.150 29.21	.565 14.35	.885 22.48	.3338 8.48	.308 7.83
<i>MCK-**-*- 9SST1</i>	1.390 35.31	1.150 29.21	.565 14.35	.885 22.48	.4018 10.21	.308 7.83
<i>MCK-**-*- 15PST1</i>	1.390 35.31	1.150 29.21	.715 18.16	.945 24.00	.4838 12.29	.308 7.83
<i>MCK-**-*- 15SST1</i>	1.390 35.31	1.150 29.21	.715 18.16	.945 24.00	.5518 14.02	.308 7.83
<i>MCK-**-*- 21PST1</i>	1.690 42.93	1.450 36.83	.865 21.97	1.185 30.10	.6338 16.10	.308 7.83
<i>MCK-**-*- 21SST1</i>	1.690 42.93	1.450 36.83	.865 21.97	1.185 30.10	.7018 17.83	.308 7.83
<i>MCK-**-*- 25PST1</i>	1.740 44.20	1.500 38.10	.965 24.51	1.275 32.39	.7338 18.64	.308 7.83
<i>MCK-**-*- 25SST1</i>	1.740 44.20	1.500 38.10	.965 24.51	1.275 32.39	.8018 20.37	.308 7.83
<i>MCK-**-*- 31PST1</i>	2.040 51.82	1.800 45.72	1.115 28.32	1.575 40.01	.8838 22.45	.308 7.83
<i>MCK-**-*- 31SST1</i>	2.040 51.82	1.800 45.72	1.115 28.32	1.575 40.01	.9518 24.18	.308 7.83
<i>MCK-**-*- 37PST1</i>	2.340 59.44	2.100 53.34	1.265 32.13	1.875 47.63	1.0338 26.26	.308 7.83
<i>MCK-**-*- 37SST1</i>	2.340 59.44	2.100 53.34	1.265 32.13	1.875 47.63	1.1018 27.99	.308 7.83
<i>MCK-**-*- 51PST1</i>	2.270 57.66	2.000 50.80	1.215 30.86	1.775 45.09	.9838 24.99	.351 8.92
<i>MCK-**-*- 51SST1</i>	2.280 57.91	2.000 50.80	1.215 30.86	1.775 45.09	1.0518 26.72	.351 8.92
<i>MCK-**-*- 100PST1</i>	3.250 82.55	2.800 71.12	1.800 45.72	2.585 65.66	1.3838 35.15	.460 11.68
<i>MCK-**-*- 100SST1</i>	3.250 82.55	2.800 71.12	1.800 45.72	2.585 65.66	1.508 38.30	.460 11.68

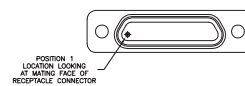
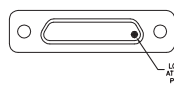
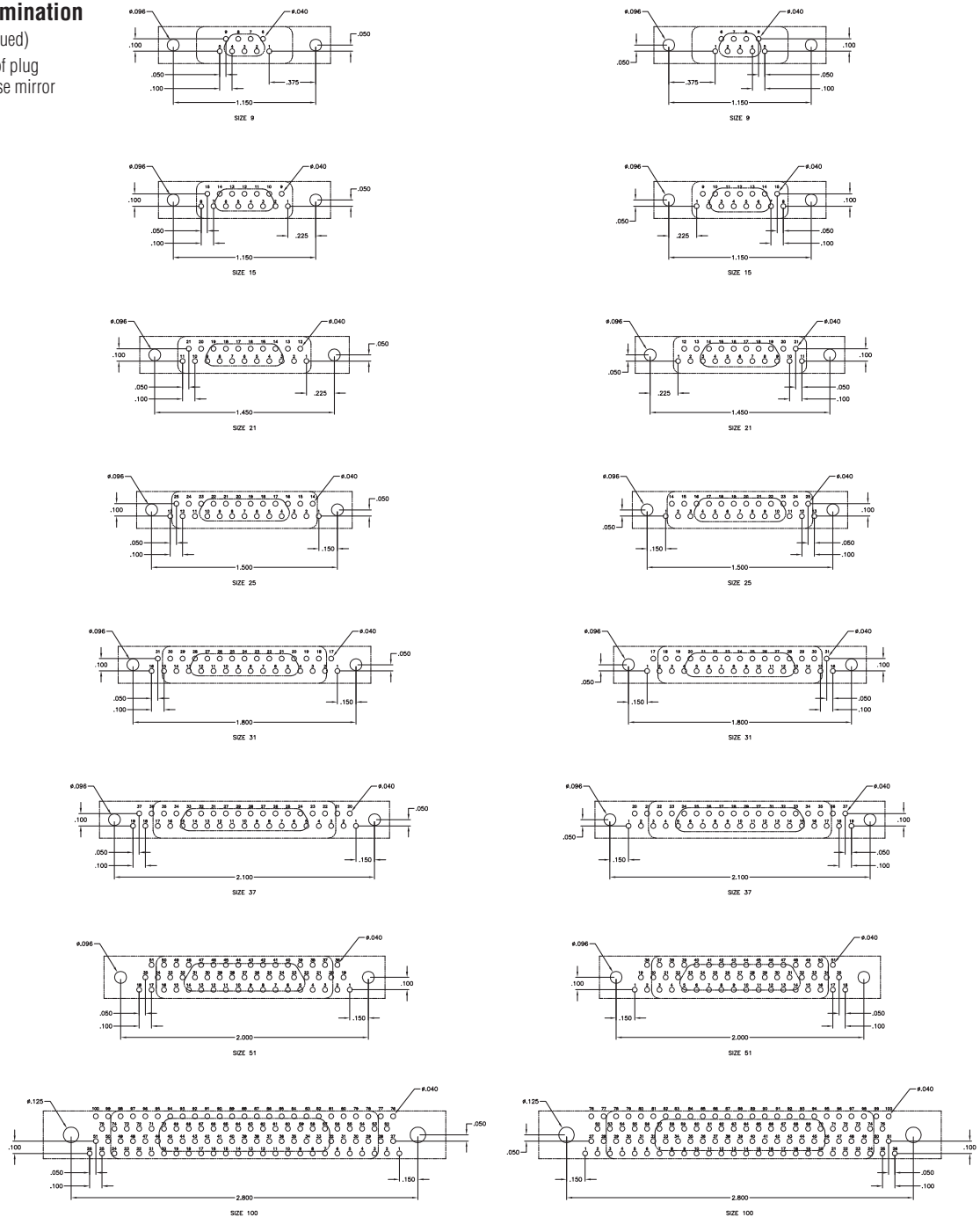
P = Pin, S = Socket

Note: Items in bold italic are qualified to MIL-DTL-83513.

MICRODOT MCK Transition Blocks (Continued)

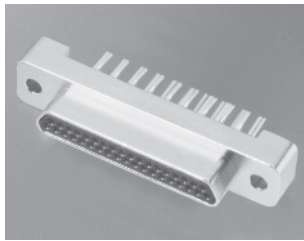
ST1 — Straight Termination Configuration (Continued)

View is of termination side of plug connector. For receptacle, use mirror image.

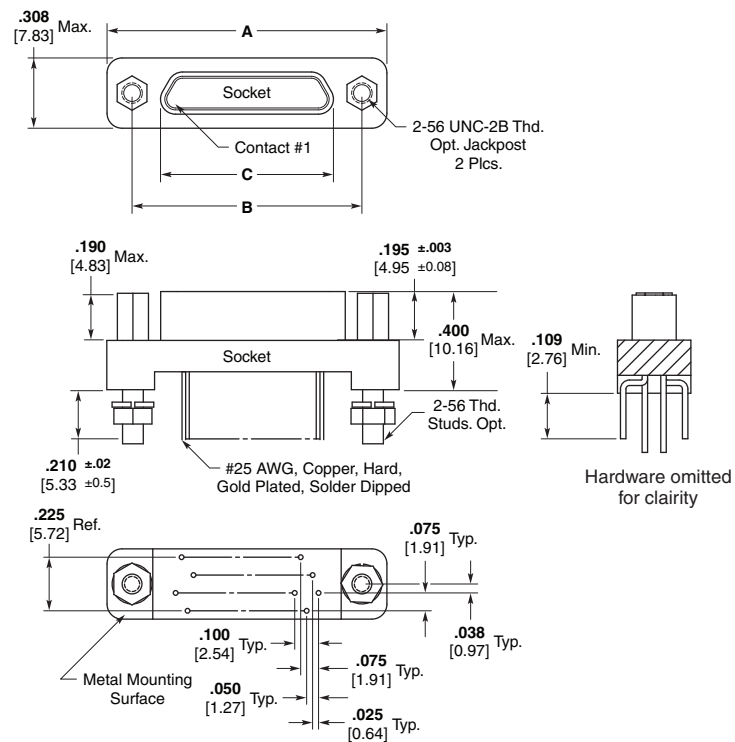
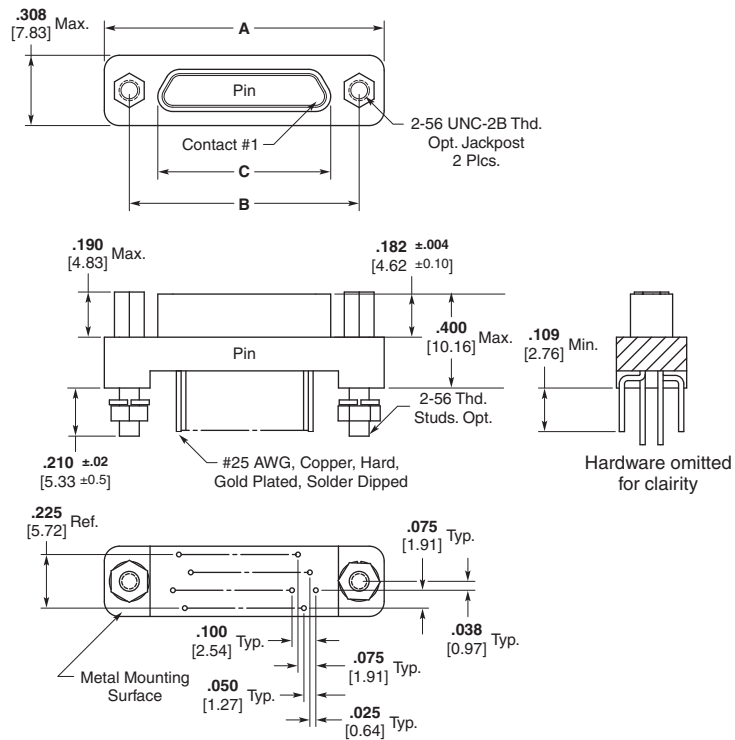


MICRODOT MCK ST2 Series Straight Mount PCB Connectors

MCK with Cactus Bend Termination



- Meets MIL-DTL-83513 Performance requirements
- Single metal shell with no Transition Block
- Low profile and light weight
- .100 [2.54] x .075 [1.91] grid pattern
- Design allows lower cost construction



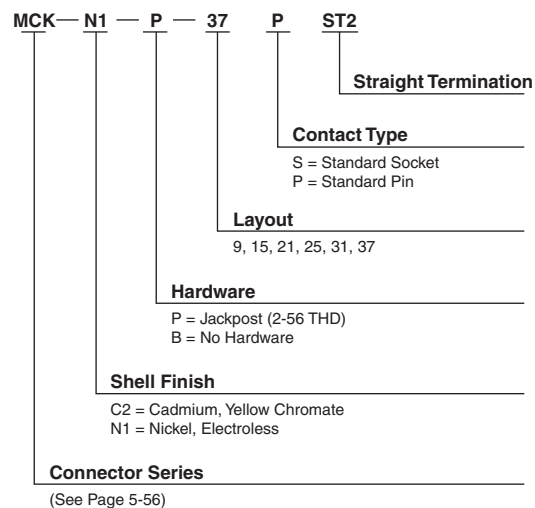
5

Nanominature and Microminiature Connectors

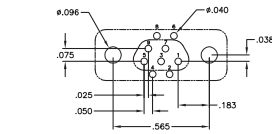
MICRODOT MCK ST2 Series Straight Mount PCB Connectors (Continued)

Part Number	A Max.	B ± .005	C Max.
MCK-**-*- 9 PST2	.785 19.94	.565 14.35	.333 8.46
MCK-**-*- 9 SST2	.785 19.94	.565 14.35	.402 10.21
MCK-**-*- 15 PST2	.935 23.75	.715 18.16	.483 12.27
MCK-**-*- 15 SST2	.935 23.75	.715 18.16	.552 14.02
MCK-**-*- 21 PST2	1.085 27.56	.865 21.97	.633 16.08
MCK-**-*- 21 SST2	1.085 27.56	.865 21.97	.702 17.83
MCK-**-*- 25 PST2	1.185 30.10	.965 24.51	.733 18.62
MCK-**-*- 25 SST2	1.185 30.10	.965 24.51	.802 20.37
MCK-**-*- 31 PST2	1.335 33.91	1.115 28.32	.883 22.43
MCK-**-*- 31 SST2	1.335 33.91	1.115 28.32	.952 24.18
MCK-**-*- 37 PST2	1.485 37.72	1.265 32.13	1.033 26.24
MCK-**-*- 37 SST2	1.485 37.72	1.265 32.13	1.102 27.99

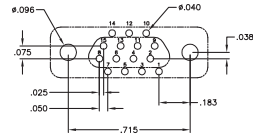
How To Specify



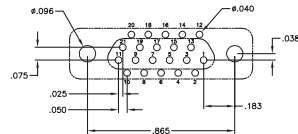
MICRODOT MCK ST2 Series Straight Mount PCB Connectors (Continued)



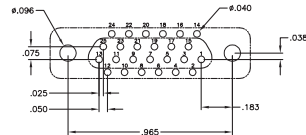
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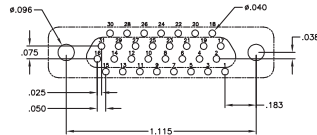
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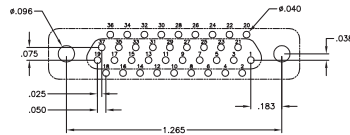
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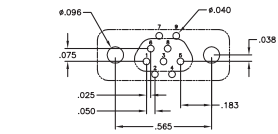
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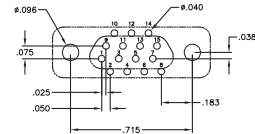
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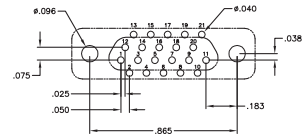
SIZE 37



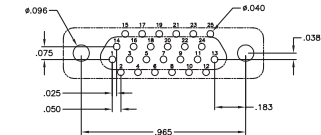
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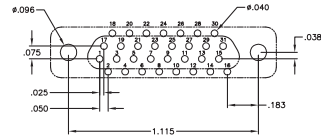
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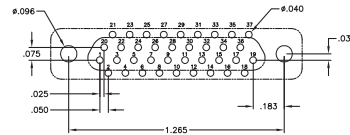
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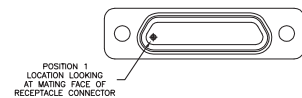
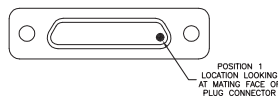
SIZE 25



SIZE 31



SIZE 37



5

Nanominature and Microminiature Connectors

MICRODOT MCDM Series Metal Shell Connectors

Technical & Performance Data

Performance

Contact Resistance — The average mated contact resistance is 4 milliohms, with a maximum value of 8 milliohms, using standard #24 solid copper leads when measured directly behind the crimp joints of the mated pin and socket contacts. The average resistance value at 100 microvolts is 4.8 milliohms.

Dielectric Withstanding Voltage (60 Hz rms room temperature) — Solder Pots — 600 VAC at sea level; 150 VAC at 70,000 feet [21,336 m]. Wire Terminations — 750 VAC at sea level; 200 VAC at 70,000 feet [21,336m]

Vibration (Per MIL-STD-202C, Method 204-A, Condition D) — No discontinuity in excess of 1 microsecond during twelve 20 minute sweeps from 10 to 2,000 CPS at .06 double amplitude or 20 G forces, whichever is less.

Corrosion Resistance (Per MIL-STD-202C, Method 101B, Condition B) — Both mated and unmated samples do not exceed the

maximum allowable contact resistance (8 milliohms) when subjected to the 48 hour salt spray test.

Durability — The contact resistance after 500 mating cycles is less than the maximum allowable, 8 milliohms.

Insulation Resistance — Greater than 5,000 megohms at room temperature for the materials listed under "Materials".

Maximum Current Carrying Capacity — No. 24 contact, 3 amperes. It must be recognized, however, that all the wires to a connector will not carry their maximum current under all environmental conditions due to wire temperature.

Contact Engaging and Separation Forces — 6 oz. [1.67N] maximum (eng.); 0.5 oz. [1.4N] minimum (sep.).

Temperature Range (Operating) — Diallyl phthalate -67°F to 257°F [-55°C to +125°C].

Materials

Insulator — Diallyl phthalate per MIL-M-14, Type SDG-F, Liquid Crystal Polymer (LCP) per ASTM D5138, or RYTON per ASTM D4067.

Contacts

Pin Contact — Copper alloy and beryllium copper alloy make up the complete construction.

Socket Contact — Copper alloy.

Body Shell — High grade aluminum alloy.

Finishes

Contacts — Standard finish is 0.000050 [0.00127] gold over copper flash per MIL-G-45204, Type II.

Body Shell — Electroless nickel per AMS 2404.

Note:

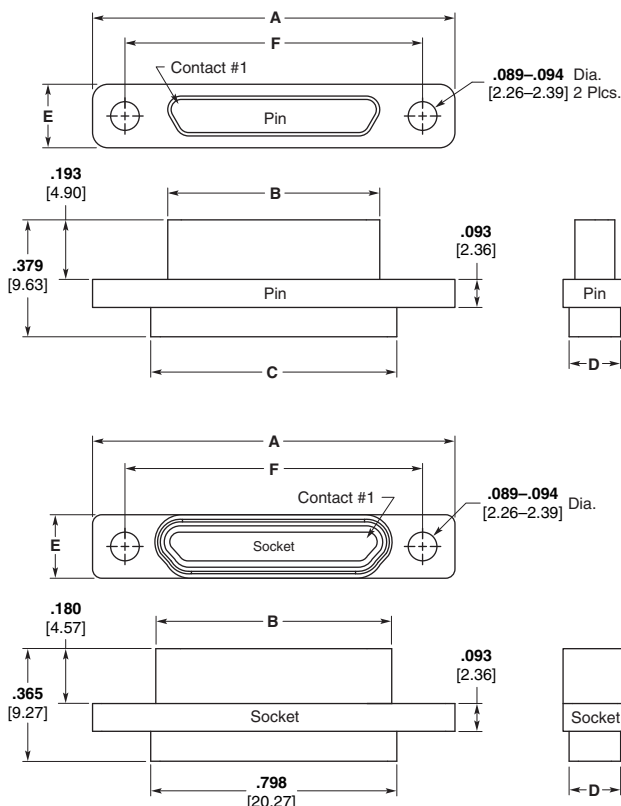
Insulators are molded into their metal shells — No bonded joint is used.

Screw Mount



The only metal shell connector that mates with all existing plastic types. This line is ideal for external use and other applications requiring frequent disconnect and remating. When durability and reliability are paramount the metal shell connector is unsurpassed — it eliminates the need for retrofitting where new metal shell varieties must mate with older plastic types.

Originally designed for military applications, they are currently used for commercial requirements, including computers.



RYTON is a trademark of Chevron Chemical Company LLC.

MICRODOT MCDM Series Metal Shell Connectors (Continued)

Screw Mount (Continued)

How To Specify

Connector Series: **MCD** **M1** — **B** — **37** **P** **6** **A** **1** — **18.0**

Shell Type and Material: M1 — Metal Shell
Screw Mount
Diallyl Phthalate or LCP Insulator

Hardware (See Pages 5-79 and 5-80):
B — No Hardware
F — Float Bushing
KM — Jackscrew, Slotted Head, High Profile
LM — Jackscrew, Slotted Head, Low Profile
QM — Jackscrew, Allen Head, High Profile
RM — Jackscrew, Allen Head, Low Profile
P — Jackpost Assembly
X — Lockscrew, Slotted Head
Y — Lockscrew, Allen Head
Z — Clip and Key (Clip Mount Only)

Insulation Color or Finish:
1 — All white wire
2 — All yellow wire
3 — All gray wire
4 — Gold plated
5 — Tin dipped gold plated
6 — Bare (unfinished)
7 — Color coded per MIL-STD-681, System 1
8 — Special color code
9 — 10 color repeating (solid) per M83513

Wire Type:
*A — Type E, 7 strand
*B — Type ET, 7 strand
*C — Type E, 19 strand
*D — Type ET, 19 strand
F — 7 strand per MIL 22759/11 (#28 AWG only)
G — 19 strand per MIL-22759/11 #26 AWG, #24 AWG
L — Copper, solid
Q — Stranded per MIL-W-22759/33
*Per MIL-W-16878

Wire Size:
4 — #24 5 — #25 6 — #26 8 — #28 0 — #30

Contact Type:
P — Pin S — Socket

Layout:
9, 15, 21, 25, 30, 31, 37, 51

S — Solder pot for #26 max. stranded wire
X — Special, does not fit description below.

Lead Length in Inches (min.): 18.0

Part Number	A ± .005 [±.127]	B ± .005 [±.127]	C ± .010 [±.254]	D ± .010 [±.254]	E ± .005 [±.127]	F ± .005 [±.127]	Avg. Weight lbs. ± 5% [grams]
MCDM1-9P***	.780 19.81	.290 7.36	.398 10.11	.165 4.19	.208 5.28	.565 14.35	.003 1.36
MCDM1-9S***	.780 19.81	.365 9.27	.398 10.11	.165 4.19	.208 5.28	.565 14.35	.003 1.36
MCDM1-15P***	.930 23.62	.440 11.18	.548 13.92	.165 4.19	.208 5.28	.715 18.16	.004 1.81
MCDM1-15S***	.930 23.62	.515 13.08	.548 13.92	.165 4.19	.208 5.28	.715 18.16	.004 1.81
MCDM1-21P***	1.080 27.43	.590 14.99	.698 17.73	.165 4.19	.208 5.28	.865 21.97	.005 2.26
MCDM1-21S***	1.080 27.43	.665 16.89	.698 17.73	.165 4.19	.208 5.28	.865 21.97	.005 2.26
MCDM1-25P***	1.180 29.97	.690 17.53	.798 20.27	.165 4.19	.208 5.28	.965 24.51	.006 2.72
MCDM1-25S***	1.180 29.97	.765 19.43	.798 20.27	.165 4.19	.208 5.28	.965 24.51	.005 2.26
MCDM1-30P***	.930 23.62	.435 11.05	.548 13.92	.252 6.40	.295 7.49	.715 18.16	.007 3.17
MCDM1-30S***	.930 23.62	.515 13.08	.548 13.92	.252 6.40	.295 7.49	.715 18.16	.007 3.17
MCDM1-31P***	1.330 33.78	.840 21.34	.948 16.46	.165 4.19	.208 5.28	1.115 28.32	.007 3.17
MCDM1-31S***	1.330 33.78	.915 23.24	.948 16.46	.165 4.19	.208 5.28	1.115 28.32	.006 2.72
MCDM1-37P***	1.480 37.59	.990 25.15	1.098 27.89	.165 4.19	.208 5.28	1.270 32.26	.007 3.17
MCDM1-37S***	1.480 37.59	1.065 27.05	1.098 27.89	.165 4.19	.208 5.28	1.270 32.26	.007 3.17
MCDM1-51P***	1.430 36.32	.940 23.88	1.048 26.62	.208 5.28	.250 6.35	1.215 30.86	.009 4.08
MCDM1-51S***	1.430 36.32	1.015 25.78	1.048 26.62	.208 5.28	.250 6.35	1.215 30.86	.008 3.62

Note: Weight given is with .500 [12.7] uninsulated, solid, 24 AWG gold plated copper pigtails.

MICRODOT MCDM Series Metal Shell RF COMBOMATE Connectors

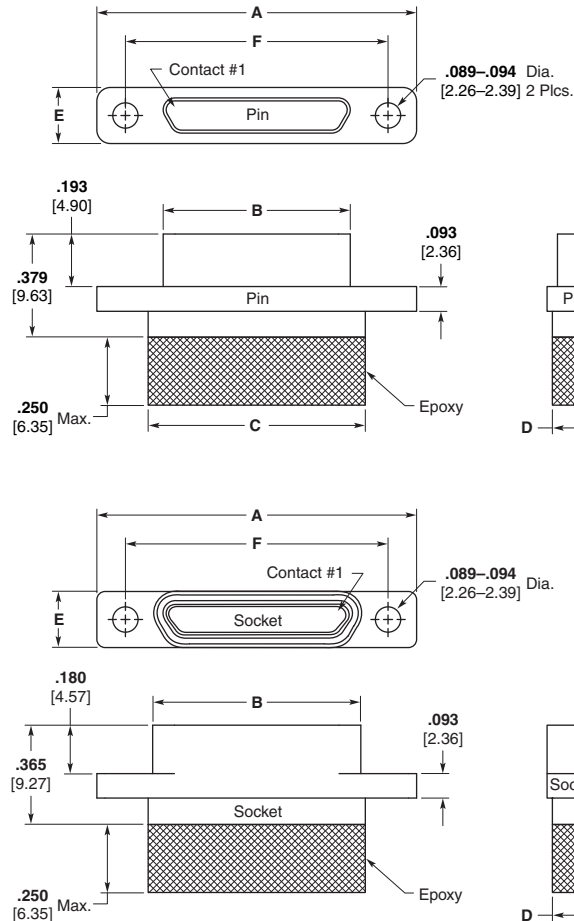
Screw Mount Coaxial Terminations

Available *now* — RF Performance in standard subminiature rectangular connectors, with VSWR values of 1.01 to 1.10 in frequencies ranging in DC to 2.3 GHz. This is the COMBOMATE Connector.

This series of connectors incorporates the same metal shells and twist pin contacts used in the widely accepted, MCDM Series.

The RF COMBOMATE Connector Series will accommodate RG 196 A/U or RG 178 B/U coaxial cable terminated in a unique, already tooled insert layouts. This feature results in savings in cost, time and space.

The RF COMBOMATE Connector Series will accommodate a maximum of 17 RG 196 A/U or RG 178 B/U cables in an area of less than .225 sq. inches [14.51 mm²]. Mixed layouts with coaxial terminations and standard AWG 24, 26 and 28 are also immediately available in 7 different shell sizes. The overall envelope and mounting dimensions of equivalent size of COMBOMATE Connectors are exactly the same as the standard MCDM Series.



Performance Data — Coaxial Terminations

Impedance — 49.0 to 51.0 Ohms.

Voltage Standing Wave Ratio (VSWR) — 1.01:1 to 1.10:1 at frequency ranging in DC to 2.3 GHz.

Dielectric Withstanding Voltage (60 Hz rms room temperature) — 750 VAC at sea level; 200 VAC at 70,000 feet [21,336 m].

	(Actual Test Data)	Crosstalk (Between Adjacent Lines)			
	1 to 2	2 to 3	3 to 4	4 to 5	
30 MHz	60.0 db	59.8 db	60.7 db	60.0 db	
100 MHz	49.1 db	48.3 db	51.7 db	50.6 db	
175 MHz	42.6 db	41.4 db	47.2 db	47.0 db	
500 MHz	38.0 db	38.8 db	39.5 db	40.0 db	
1000 MHz	31.6 db	32.0 db	30.0 db	32.5 db	
2000 MHz	22.4 db	22.5 db	22.3 db	20.8 db	
3000 MHz	21.5 db	23.9 db	21.4 db	24.2 db	

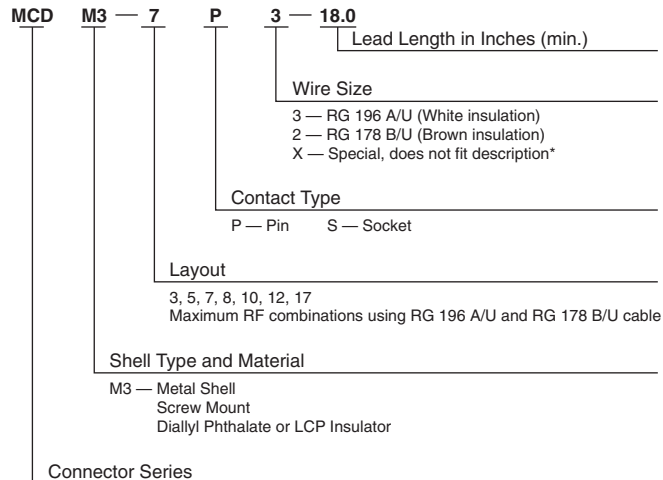
Insertion Loss					
Sample	#1	#2	#3	#4	#5
30 MHz	.08 db	.08 db	.08 db	.08 db	.08 db
100 MHz	.24 db	.24 db	.25 db	.25 db	.25 db
175 MHz	.35 db	.36 db	.36 db	.34 db	.32 db
500 MHz	.58 db	.50 db	.60 db	.58 db	.48 db
1000 MHz	1.25 db	1.33 db	1.36 db	1.35 db	1.24 db
2000 MHz	1.48 db	1.71 db	1.42 db	1.40 db	1.45 db
3000 MHz	2.66 db	2.45 db	2.74 db	2.86 db	2.84 db

Note: Verification of all test data is on file at TE Connectivity and is available upon request.
All test runs using RG 196 A/U.

MICRODOT MCDM Series Metal Shell RF COMBOMATE Connectors (Continued)

Screw Mount Coaxial Terminations (Continued)

How To Specify



***Ordering Criteria:** A wide variety of contact combinations, coaxial and power mixed, are available. Contact TE Connectivity for additional arrangement numbers.

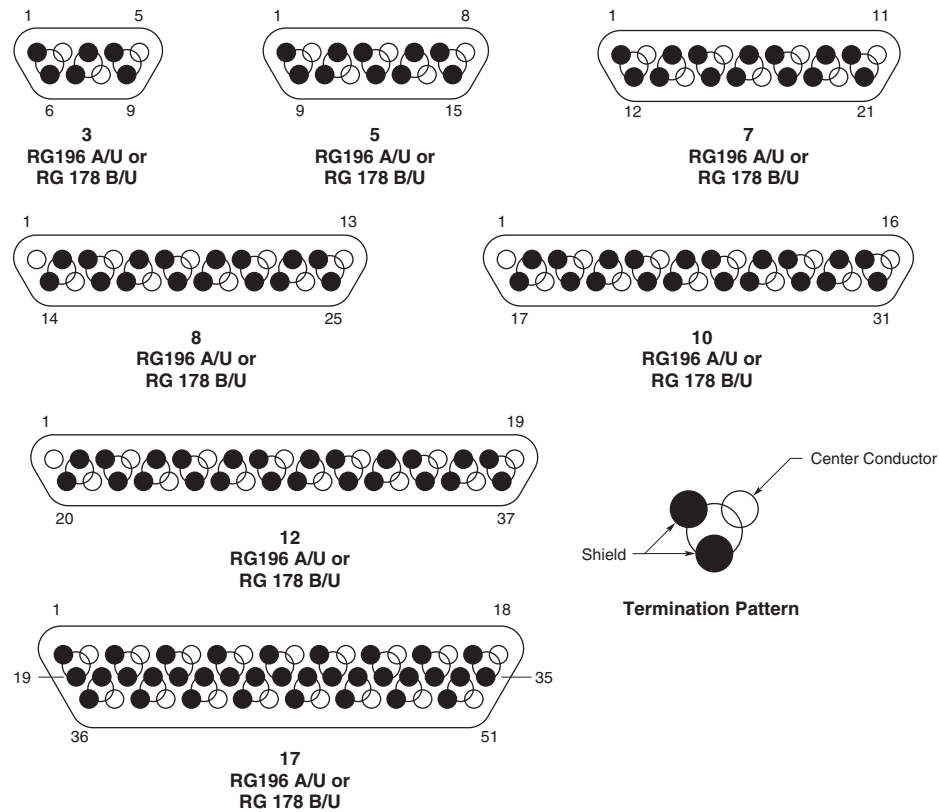
Part Number	A ± .005 [± .127]	B ± .005 [± .127]	C Max.	D Max.	E ± .005 [± .127]	F ± .005 [± .127]
MCDM3-3P**	.780 19.81	.290 7.36	.408 10.36	.200 5.08	.208 5.28	.565 14.35
MCDM3-3S**	.780 19.81	.365 9.27	.408 10.36	.200 5.08	.208 5.28	.565 14.35
MCDM3-5P**	.930 23.62	.440 11.18	.558 14.17	.200 5.08	.208 5.28	.715 18.16
MCDM3-5S**	.930 23.62	.515 13.08	.558 14.17	.200 5.08	.208 5.28	.715 18.16
MCDM3-7P**	1.080 27.43	.590 14.99	.708 17.98	.200 5.08	.208 5.28	.865 21.97
MCDM3-7S**	1.080 27.43	.665 16.89	.708 17.98	.200 5.08	.208 5.28	.865 21.97
MCDM3-8P**	1.180 29.97	.690 17.53	.808 20.52	.200 5.08	.208 5.28	.965 24.51
MCDM3-8S**	1.180 29.97	.765 19.43	.808 20.52	.200 5.08	.208 5.28	.965 24.51
MCDM3-10P**	1.330 33.78	.840 21.34	.958 24.33	.200 5.08	.208 5.28	1.115 28.32
MCDM3-10S**	1.330 33.78	.915 23.24	.958 24.33	.200 5.08	.208 5.28	1.115 28.32
MCDM3-12P**	1.480 37.59	.990 25.15	1.108 27.89	.200 5.08	.208 5.28	1.270 32.26
MCDM3-12S**	1.480 37.59	1.065 27.05	1.108 27.89	.200 5.08	.208 5.28	1.270 32.26
MCDM3-17P**	1.430 36.32	.940 23.88	1.058 26.87	.245 6.22	.250 6.35	1.215 30.86
MCDM3-17S**	1.430 36.32	1.015 25.78	1.058 26.87	.245 6.22	.250 6.35	1.215 30.86

5

Nanominature and Microminiature Connectors

MICRODOT MCDM Series Metal Shell RF COMBOMATE Connectors (Continued)

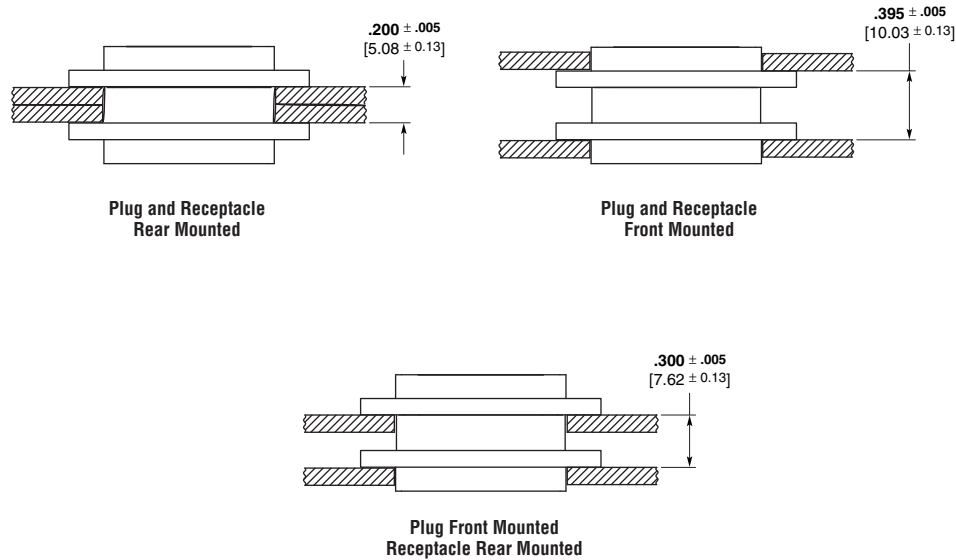
Contact Arrangement as Viewed from the Engaging Face of the Pin Side



Note: The above contact arrangements are the maximum densities that can be obtained in each shell size when using RG 196 A/U or RG 178 B/U cable.

MICRODOT MCDM Series Metal Shell Connectors Panel Mounting — Cutout Dimensions

Panel Mounting Dimensions — MCDM



Panel Cutout Dimensions

Screw Mounting

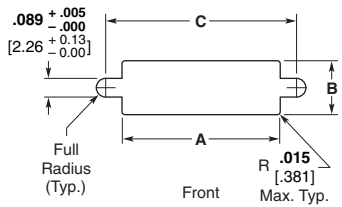


Figure 1

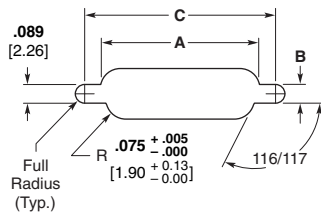


Figure 2

Note: Front mounting preferred.

Number of Contacts	Fig.	A		B		C	
		+.004 [+ .102]	-.000 [- .000]	+.004 [+ .102]	-.000 [- .000]	+.005 [+ .127]	-.000 [- .000]
9	1	.412 [10.46]		.177 [4.50]		.570 [14.48]	
	2	.384 [9.75]		.222 [5.64]		.570 [14.48]	
15	1	.562 [14.27]		.177 [4.50]		.720 [18.29]	
	2	.534 [13.56]		.222 [5.64]		.720 [18.29]	
21	1	.712 [18.08]		.177 [4.50]		.870 [22.10]	
	2	.684 [17.37]		.222 [5.64]		.870 [22.10]	
25	1	.812 [20.62]		.177 [4.50]		.970 [24.64]	
	2	.784 [19.91]		.222 [5.64]		.970 [24.64]	
31	1	.962 [24.43]		.177 [4.50]		1.120 [28.45]	
	2	.934 [23.72]		.222 [5.64]		1.120 [28.45]	
37	1	1.112 [28.24]		.177 [4.50]		1.270 [32.26]	
	2	1.084 [27.53]		.222 [5.64]		1.270 [32.26]	
51	1	1.062 [26.97]		.224 [5.69]		1.220 [30.99]	
	2	1.034 [26.26]		.264 [6.71]		1.220 [30.99]	

MIL-DTL-83513 Cross Reference

MCKS (Metal Shell)

Military Part No.	MICRODOT Part No.
M83513/01-A*	MCKS**-B- 9PS
M83513/01-B*	MCKS**-B- 15PS
M83513/01-C*	MCKS**-B- 21PS
M83513/01-D*	MCKS**-B- 25PS
M83513/01-E*	MCKS**-B- 31PS
M83513/01-F*	MCKS**-B- 37PS
M83513/01-G*	MCKS**-B- 51PS
M83513/01-H*	MCKS**-B-100PS
M83513/02-A*	MCKS**-B- 9SS
M83513/02-B*	MCKS**-B- 15SS
M83513/02-C*	MCKS**-B- 21SS
M83513/02-D*	MCKS**-B- 25SS
M83513/02-E*	MCKS**-B- 31SS
M83513/02-F*	MCKS**-B- 37SS
M83513/02-G*	MCKS**-B- 51SS
M83513/02-H*	MCKS**-B-100SS
M83513/03-A01*	MCKS**-B- 9P6G1-18.0
M83513/03-B01*	MCKS**-B- 15P6G1-18.0
M83513/03-C01*	MCKS**-B- 21P6G1-18.0
M83513/03-D01*	MCKS**-B- 25P6G1-18.0
M83513/03-E01*	MCKS**-B- 31P6G1-18.0
M83513/03-F01*	MCKS**-B- 37P6G1-18.0
M83513/03-G01*	MCKS**-B- 51P6G1-18.0
M83513/03-H01*	MCKS**-B-100P6G1-18.0
M83513/03-A02*	MCKS**-B- 9P6G1-36.0
M83513/03-B02*	MCKS**-B- 15P6G1-36.0
M83513/03-C02*	MCKS**-B- 21P6G1-36.0
M83513/03-D02*	MCKS**-B- 25P6G1-36.0
M83513/03-E02*	MCKS**-B- 31P6G1-36.0
M83513/03-F02*	MCKS**-B- 37P6G1-36.0
M83513/03-G02*	MCKS**-B- 51P6G1-36.0
M83513/03-H02*	MCKS**-B-100P6G1-36.0
M83513/03-A03*	MCKS**-B- 9P6G9-18.0
M83513/03-B03*	MCKS**-B- 15P6G9-18.0
M83513/03-C03*	MCKS**-B- 21P6G9-18.0
M83513/03-D03*	MCKS**-B- 25P6G9-18.0
M83513/03-E03*	MCKS**-B- 31P6G9-18.0
M83513/03-F03*	MCKS**-B- 37P6G9-18.0
M83513/03-G03*	MCKS**-B- 51P6G9-18.0
M83513/03-H03*	MCKS**-B-100P6G9-18.0
M83513/03-A04*	MCKS**-B- 9P6G9-36.0
M83513/03-B04*	MCKS**-B- 15P6G9-36.0
M83513/03-C04*	MCKS**-B- 21P6G9-36.0
M83513/03-D04*	MCKS**-B- 25P6G9-36.0
M83513/03-E04*	MCKS**-B- 31P6G9-36.0
M83513/03-F04*	MCKS**-B- 37P6G9-36.0
M83513/03-G04*	MCKS**-B- 51P6G9-36.0
M83513/03-H04*	MCKS**-B-100P6G9-36.0
M83513/03-A05*	MCKS**-B- 9P5L4-0.5
M83513/03-B05*	MCKS**-B- 15P5L4-0.5
M83513/03-C05*	MCKS**-B- 21P5L4-0.5
M83513/03-D05*	MCKS**-B- 25P5L4-0.5
M83513/03-E05*	MCKS**-B- 31P5L4-0.5
M83513/03-F05*	MCKS**-B- 37P5L4-0.5
M83513/03-G05*	MCKS**-B- 51P5L4-0.5
M83513/03-H05*	MCKS**-B-100P5L4-0.5
M83513/03-A06*	MCKS**-B- 9P5L4-1.0
M83513/03-B06*	MCKS**-B- 15P5L4-1.0
M83513/03-C06*	MCKS**-B- 21P5L4-1.0
M83513/03-D06*	MCKS**-B- 25P5L4-1.0

Military Part No.	MICRODOT Part No.
M83513/03-E06*	MCKS**-B- 31P5L4-1.0
M83513/03-F06*	MCKS**-B- 37P5L4-1.0
M83513/03-G06*	MCKS**-B- 51P5L4-1.0
M83513/03-H06*	MCKS**-B-100P5L4-1.0
M83513/03-A07*	MCKS**-B- 9P5L5-0.5
M83513/03-B07*	MCKS**-B- 15P5L5-0.5
M83513/03-C07*	MCKS**-B- 21P5L5-0.5
M83513/03-D07*	MCKS**-B- 25P5L5-0.5
M83513/03-E07*	MCKS**-B- 31P5L5-0.5
M83513/03-F07*	MCKS**-B- 37P5L5-0.5
M83513/03-G07*	MCKS**-B- 51P5L5-0.5
M83513/03-H07*	MCKS**-B-100P5L5-0.5
M83513/03-A08*	MCKS**-B- 9P5L5-1.0
M83513/03-B08*	MCKS**-B- 15P5L5-1.0
M83513/03-C08*	MCKS**-B- 21P5L5-1.0
M83513/03-D08*	MCKS**-B- 25P5L5-1.0
M83513/03-E08*	MCKS**-B- 31P5L5-1.0
M83513/03-F08*	MCKS**-B- 37P5L5-1.0
M83513/03-G08*	MCKS**-B- 51P5L5-1.0
M83513/03-H08*	MCKS**-B-100P5L5-1.0
M83513/03-A09*	MCKS**-B- 9P6Q1-18.0
M83513/03-B09*	MCKS**-B- 15P6Q1-18.0
M83513/03-C09*	MCKS**-B- 21P6Q1-18.0
M83513/03-D09*	MCKS**-B- 25P6Q1-18.0
M83513/03-E09*	MCKS**-B- 31P6Q1-18.0
M83513/03-F09*	MCKS**-B- 37P6Q1-18.0
M83513/03-G09*	MCKS**-B- 51P6Q1-18.0
M83513/03-H09*	MCKS**-B-100P6Q1-18.0
M83513/03-A10*	MCKS**-B- 9P6Q1-36.0
M83513/03-B10*	MCKS**-B- 15P6Q1-36.0
M83513/03-C10*	MCKS**-B- 21P6Q1-36.0
M83513/03-D10*	MCKS**-B- 25P6Q1-36.0
M83513/03-E10*	MCKS**-B- 31P6Q1-36.0
M83513/03-F10*	MCKS**-B- 37P6Q1-36.0
M83513/03-G10*	MCKS**-B- 51P6Q1-36.0
M83513/03-H10*	MCKS**-B-100P6Q1-36.0
M83513/03-A11*	MCKS**-B- 9P6Q9-18.0
M83513/03-B11*	MCKS**-B- 15P6Q9-18.0
M83513/03-C11*	MCKS**-B- 21P6Q9-18.0
M83513/03-D11*	MCKS**-B- 25P6Q9-18.0
M83513/03-E11*	MCKS**-B- 31P6Q9-18.0
M83513/03-F11*	MCKS**-B- 37P6Q9-18.0
M83513/03-G11*	MCKS**-B- 51P6Q9-18.0
M83513/03-H11*	MCKS**-B-100P6Q9-18.0
M83513/03-A12*	MCKS**-B- 9P6Q9-36.0
M83513/03-B12*	MCKS**-B- 15P6Q9-36.0
M83513/03-C12*	MCKS**-B- 21P6Q9-36.0
M83513/03-D12*	MCKS**-B- 25P6Q9-36.0
M83513/03-E12*	MCKS**-B- 31P6Q9-36.0
M83513/03-F12*	MCKS**-B- 37P6Q9-36.0
M83513/03-G12*	MCKS**-B- 51P6Q9-36.0
M83513/03-H12*	MCKS**-B-100P6Q9-36.0
M83513/03-A13*	MCKS**-B- 9P6G1-72.0
M83513/03-B13*	MCKS**-B- 15P6G1-72.0
M83513/03-C13*	MCKS**-B- 21P6G1-72.0
M83513/03-D13*	MCKS**-B- 25P6G1-72.0
M83513/03-E13*	MCKS**-B- 31P6G1-72.0
M83513/03-F13*	MCKS**-B- 37P6G1-72.0
M83513/03-G13*	MCKS**-B- 51P6G1-72.0
M83513/03-H13*	MCKS**-B-100P6G1-72.0

Military Part No.	MICRODOT Part No.
M83513/03-A14*	MCKS**-B- 9P6G9-72.0
M83513/03-B14*	MCKS**-B- 15P6G9-72.0
M83513/03-C14*	MCKS**-B- 21P6G9-72.0
M83513/03-D14*	MCKS**-B- 25P6G9-72.0
M83513/03-E14*	MCKS**-B- 31P6G9-72.0
M83513/03-F14*	MCKS**-B- 37P6G9-72.0
M83513/03-G14*	MCKS**-B- 51P6G9-72.0
M83513/03-H14*	MCKS**-B-100P6G9-72.0
M83513/03-A15*	MCKS**-B- 9P6Q1-72.0
M83513/03-B15*	MCKS**-B- 15P6Q1-72.0
M83513/03-C15*	MCKS**-B- 21P6Q1-72.0
M83513/03-D15*	MCKS**-B- 25P6Q1-72.0
M83513/03-E15*	MCKS**-B- 31P6Q1-72.0
M83513/03-F15*	MCKS**-B- 37P6Q1-72.0
M83513/03-G15*	MCKS**-B- 51P6Q1-72.0
M83513/03-H15*	MCKS**-B-100P6Q1-72.0
M83513/03-A16*	MCKS**-B- 9P6Q9-72.0
M83513/03-B16*	MCKS**-B- 15P6Q9-72.0
M83513/03-C16*	MCKS**-B- 21P6Q9-72.0
M83513/03-D16*	MCKS**-B- 25P6Q9-72.0
M83513/03-E16*	MCKS**-B- 31P6Q9-72.0
M83513/03-F16*	MCKS**-B- 37P6Q9-72.0
M83513/03-G16*	MCKS**-B- 51P6Q9-72.0
M83513/03-H16*	MCKS**-B-100P6Q9-72.0
M83513/04-A01*	MCKS**-B- 9S6G1-18.0
M83513/04-B01*	MCKS**-B- 15S6G1-18.0
M83513/04-C01*	MCKS**-B- 21S6G1-18.0
M83513/04-D01*	MCKS**-B- 25S6G1-18.0
M83513/04-E01*	MCKS**-B- 31S6G1-18.0
M83513/04-F01*	MCKS**-B- 37S6G1-18.0
M83513/04-G01*	MCKS**-B- 51S6G1-18.0
M83513/04-H01*	MCKS**-B-100S6G1-18.0
M83513/04-A02*	MCKS**-B- 9S6G1-36.0
M83513/04-B02*	MCKS**-B- 15S6G1-36.0
M83513/04-C02*	MCKS**-B- 21S6G1-36.0
M83513/04-D02*	MCKS**-B- 25S6G1-36.0
M83513/04-E02*	MCKS**-B- 31S6G1-36.0
M83513/04-F02*	MCKS**-B- 37S6G1-36.0
M83513/04-G02*	MCKS**-B- 51S6G1-36.0
M83513/04-H02*	MCKS**-B-100S6G1-36.0
M83513/04-A03*	MCKS**-B- 9S6G9-18.0
M83513/04-B03*	MCKS**-B- 15S6G9-18.0
M83513/04-C03*	MCKS**-B- 21S6G9-18.0
M83513/04-D03*	MCKS**-B- 25S6G9-18.0
M83513/04-E03*	MCKS**-B- 31S6G9-18.0
M83513/04-F03*	MCKS**-B- 37S6G9-18.0
M83513/04-G03*	MCKS**-B- 51S6G9-18.0
M83513/04-H03*	MCKS**-B-100S6G9-18.0
M83513/04-A04*	MCKS**-B- 9S6G9-36.0
M83513/04-B04*	MCKS**-B- 15S6G9-36.0
M83513/04-C04*	MCKS**-B- 21S6G9-36.0
M83513/04-D04*	MCKS**-B- 25S6G9-36.0
M83513/04-E04*	MCKS**-B- 31S6G9-36.0
M83513/04-F04*	MCKS**-B- 37S6G9-36.0
M83513/04-G04*	MCKS**-B- 51S6G9-36.0
M83513/04-H04*	MCKS**-B-100S6G9-36.0
M83513/04-A05*	MCKS**-B- 9S5L4-0.5
M83513/04-B05*	MCKS**-B- 15S5L4-0.5
M83513/04-C05*	MCKS**-B- 21S5L4-0.5
M83513/04-D05*	MCKS**-B- 25S5L4-0.5

MIL-DTL-83513 Cross Reference (Continued)

MCKS (Metal Shell) (Continued)

Military Part No.	MICRODOT Part No.
M83513/04-E05*	MCKS**-B- 31S5L4-0.5
M83513/04-F05*	MCKS**-B- 37S5L4-0.5
M83513/04-G05*	MCKS**-B- 51S5L4-0.5
M83513/04-H05*	MCKS**-B-100S5L4-0.5
M83513/04-A06*	MCKS**-B- 9S5L4-1.0
M83513/04-B06*	MCKS**-B- 15S5L4-1.0
M83513/04-C06*	MCKS**-B- 21S5L4-1.0
M83513/04-D06*	MCKS**-B- 25S5L4-1.0
M83513/04-E06*	MCKS**-B- 31S5L4-1.0
M83513/04-F06*	MCKS**-B- 37S5L4-1.0
M83513/04-G06*	MCKS**-B- 51S5L4-1.0
M83513/04-H06*	MCKS**-B-100S5L4-1.0
M83513/04-A07*	MCKS**-B- 9S5L5-0.5
M83513/04-B07*	MCKS**-B- 15S5L5-0.5
M83513/04-C07*	MCKS**-B- 21S5L5-0.5
M83513/04-D07*	MCKS**-B- 25S5L5-0.5
M83513/04-E07*	MCKS**-B- 31S5L5-0.5
M83513/04-F07*	MCKS**-B- 37S5L5-0.5
M83513/04-G07*	MCKS**-B- 51S5L5-0.5
M83513/04-H07*	MCKS**-B-100S5L5-0.5
M83513/04-A08*	MCKS**-B- 9S5L5-1.0
M83513/04-B08*	MCKS**-B- 15S5L5-1.0
M83513/04-C08*	MCKS**-B- 21S5L5-1.0
M83513/04-D08*	MCKS**-B- 25S5L5-1.0
M83513/04-E08*	MCKS**-B- 31S5L5-1.0
M83513/04-F08*	MCKS**-B- 37S5L5-1.0
M83513/04-G08*	MCKS**-B- 51S5L5-1.0
M83513/04-H08*	MCKS**-B-100S5L5-1.0
M83513/04-A09*	MCKS**-B- 9S6Q1-18.0
M83513/04-B09*	MCKS**-B- 15S6Q1-18.0
M83513/04-C09*	MCKS**-B- 21S6Q1-18.0

Military Part No.	MICRODOT Part No.
M83513/04-D09*	MCKS**-B- 25S6Q1-18.0
M83513/04-E09*	MCKS**-B- 31S6Q1-18.0
M83513/04-F09*	MCKS**-B- 37S6Q1-18.0
M83513/04-G09*	MCKS**-B- 51S6Q1-18.0
M83513/04-H09*	MCKS**-B-100S6Q1-18.0
M83513/04-A10*	MCKS**-B- 9S6Q1-36.0
M83513/04-B10*	MCKS**-B- 15S6Q1-36.0
M83513/04-C10*	MCKS**-B- 21S6Q1-36.0
M83513/04-D10*	MCKS**-B- 25S6Q1-36.0
M83513/04-E10*	MCKS**-B- 31S6Q1-36.0
M83513/04-F10*	MCKS**-B- 37S6Q1-36.0
M83513/04-G10*	MCKS**-B- 51S6Q1-36.0
M83513/04-H10*	MCKS**-B-100S6Q1-36.0
M83513/04-A11*	MCKS**-B- 9S6Q9-18.0
M83513/04-B11*	MCKS**-B- 15S6Q9-18.0
M83513/04-C11*	MCKS**-B- 21S6Q9-18.0
M83513/04-D11*	MCKS**-B- 25S6Q9-18.0
M83513/04-E11*	MCKS**-B- 31S6Q9-18.0
M83513/04-F11*	MCKS**-B- 37S6Q9-18.0
M83513/04-G11*	MCKS**-B- 51S6Q9-18.0
M83513/04-H11*	MCKS**-B-100S6Q9-18.0
M83513/04-A12*	MCKS**-B- 9S6Q9-36.0
M83513/04-B12*	MCKS**-B- 15S6Q9-36.0
M83513/04-C12*	MCKS**-B- 21S6Q9-36.0
M83513/04-D12*	MCKS**-B- 25S6Q9-36.0
M83513/04-E12*	MCKS**-B- 31S6Q9-36.0
M83513/04-F12*	MCKS**-B- 37S6Q9-36.0
M83513/04-G12*	MCKS**-B- 51S6Q9-36.0
M83513/04-H12*	MCKS**-B-100S6Q9-36.0
M83513/04-A13*	MCKS**-B- 9S6G1-72.0
M83513/04-B13*	MCKS**-B- 15S6G1-72.0

Military Part No.	MICRODOT Part No.
M83513/04-C13*	MCKS**-B- 21S6G1-72.0
M83513/04-D13*	MCKS**-B- 25S6G1-72.0
M83513/04-E13*	MCKS**-B- 31S6G1-72.0
M83513/04-F13*	MCKS**-B- 37S6G1-72.0
M83513/04-G13*	MCKS**-B- 51S6G1-72.0
M83513/04-H13*	MCKS**-B-100S6G1-72.0
M83513/04-A14*	MCKS**-B- 9S6G9-72.0
M83513/04-B14*	MCKS**-B- 15S6G9-72.0
M83513/04-C14*	MCKS**-B- 21S6G9-72.0
M83513/04-D14*	MCKS**-B- 25S6G9-72.0
M83513/04-E14*	MCKS**-B- 31S6G9-72.0
M83513/04-F14*	MCKS**-B- 37S6G9-72.0
M83513/04-G14*	MCKS**-B- 51S6G9-72.0
M83513/04-H14*	MCKS**-B-100S6G9-72.0
M83513/04-A15*	MCKS**-B- 9S6Q1-72.0
M83513/04-B15*	MCKS**-B- 15S6Q1-72.0
M83513/04-C15*	MCKS**-B- 21S6Q1-72.0
M83513/04-D15*	MCKS**-B- 25S6Q1-72.0
M83513/04-E15*	MCKS**-B- 31S6Q1-72.0
M83513/04-F15*	MCKS**-B- 37S6Q1-72.0
M83513/04-G15*	MCKS**-B- 51S6Q1-72.0
M83513/04-H15*	MCKS**-B-100S6Q1-72.0
M83513/04-A16*	MCKS**-B- 9S6Q9-72.0
M83513/04-B16*	MCKS**-B- 15S6Q9-72.0
M83513/04-C16*	MCKS**-B- 21S6Q9-72.0
M83513/04-D16*	MCKS**-B- 25S6Q9-72.0
M83513/04-E16*	MCKS**-B- 31S6Q9-72.0
M83513/04-F16*	MCKS**-B- 37S6Q9-72.0
M83513/04-G16*	MCKS**-B- 51S6Q9-72.0
M83513/04-H16*	MCKS**-B-100S6Q9-72.0

*C = Cadmium or N = Nickel (space applications only)

**C2 = Cadmium or N1 = Nickel (space applications only)

Hardware

Military Part No.	MICRODOT Part No.
M83513/05-02	"A. HD, J/S, L.F. #2"
M83513/05-12	"A. HD, J/S, L.F. #4"
M83513/05-03	"A. HD, J/S,H.F. #2"
M83513/05-13	"A. HD, J/S, H.F. #4"

Military Part No.	MICRODOT Part No.
M83513/05-05	"S. HD, J/S, L.F. #2"
M83513/05-15	"S. HD, J/S, L.F. #4"
M83513/05-06	"S. HD, J/S, H.F. #2"
M83513/05-16	"S. HD, J/S, H.F. #4"

Military Part No.	MICRODOT Part No.
M83513/05-07	"JACKPOST ASSY #2"
M83513/05-17	"JACKPOST ASSY, #4"

MCDR (Plastic Shell)

Military Part No.	MICRODOT Part No.
M83513/06-A	MCDR3-B- 9PS
M83513/06-B	MCDR3-B-15PS
M83513/06-C	MCDR3-B-21PS
M83513/06-D	MCDR3-B-25PS
M83513/06-E	MCDR3-B-31PS
M83513/06-F	MCDR3-B-37PS
M83513/06-G	MCDR3-B-51PS
M83513/07-A	MCDR3-B- 9SS
M83513/07-B	MCDR3-B-15SS
M83513/07-C	MCDR3-B-21SS
M83513/07-D	MCDR3-B-25SS
M83513/07-E	MCDR3-B-31SS
M83513/07-F	MCDR3-B-37SS

Military Part No.	MICRODOT Part No.
M83513/07-G	MCDR3-B-51SS
M83513/08-A01	MCDR3-B- 9P6G1-18.0
M83513/08-B01	MCDR3-B-15P6G1-18.0
M83513/08-C01	MCDR3-B-21P6G1-18.0
M83513/08-D01	MCDR3-B-25P6G1-18.0
M83513/08-E01	MCDR3-B-31P6G1-18.0
M83513/08-F01	MCDR3-B-37P6G1-18.0
M83513/08-G01	MCDR3-B-51P6G1-18.0
M83513/08-A02	MCDR3-B- 9P6G1-36.0
M83513/08-B02	MCDR3-B-15P6G1-36.0
M83513/08-C02	MCDR3-B-21P6G1-36.0
M83513/08-D02	MCDR3-B-25P6G1-36.0
M83513/08-E02	MCDR3-B-31P6G1-36.0

Military Part No.	MICRODOT Part No.
M83513/08-F02	MCDR3-B-37P6G1-36.0
M83513/08-G02	MCDR3-B-51P6G1-36.0
M83513/08-A03	MCDR3-B- 9P6G9-18.0
M83513/08-B03	MCDR3-B-15P6G9-18.0
M83513/08-C03	MCDR3-B-21P6G9-18.0
M83513/08-D03	MCDR3-B-25P6G9-18.0
M83513/08-E03	MCDR3-B-31P6G9-18.0
M83513/08-F03	MCDR3-B-37P6G9-18.0
M83513/08-G03	MCDR3-B-51P6G9-18.0
M83513/08-A04	MCDR3-B- 9P6G9-36.0
M83513/08-B04	MCDR3-B-15P6G9-36.0
M83513/08-C04	MCDR3-B-21P6G9-36.0
M83513/08-D04	MCDR3-B-25P6G9-36.0

MIL-DTL-83513 Cross Reference (Continued)

MCDR (Plastic Shell) (Continued)

Military Part No.	MICRODOT Part No.
M83513/08-E04	MCDR3-B-31P6G9-36.0
M83513/08-F04	MCDR3-B-37P6G9-36.0
M83513/08-G04	MCDR3-B-51P6G9-36.0
M83513/08-A05	MCDR3-B- 9P5L4-0.5
M83513/08-B05	MCDR3-B-15P5L4-0.5
M83513/08-C05	MCDR3-B-21P5L4-0.5
M83513/08-D05	MCDR3-B-25P5L4-0.5
M83513/08-E05	MCDR3-B-31P5L4-0.5
M83513/08-F05	MCDR3-B-37P5L4-0.5
M83513/08-G05	MCDR3-B-51P5L4-0.5
M83513/08-A06	MCDR3-B- 9P5L4-1.0
M83513/08-B06	MCDR3-B-15P5L4-1.0
M83513/08-C06	MCDR3-B-21P5L4-1.0
M83513/08-D06	MCDR3-B-25P5L4-1.0
M83513/08-E06	MCDR3-B-31P5L4-1.0
M83513/08-F06	MCDR3-B-37P5L4-1.0
M83513/08-G06	MCDR3-B-51P5L4-1.0
M83513/08-A07	MCDR3-B- 9P5L5-0.5
M83513/08-B07	MCDR3-B-15P5L5-0.5
M83513/08-C07	MCDR3-B-21P5L5-0.5
M83513/08-D07	MCDR3-B-25P5L5-0.5
M83513/08-E07	MCDR3-B-31P5L5-0.5
M83513/08-F07	MCDR3-B-37P5L5-0.5
M83513/08-G07	MCDR3-B-51P5L5-0.5
M83513/08-A08	MCDR3-B- 9P5L5-1.0
M83513/08-B08	MCDR3-B-15P5L5-1.0
M83513/08-C08	MCDR3-B-21P5L5-1.0
M83513/08-D08	MCDR3-B-25P5L5-1.0
M83513/08-E08	MCDR3-B-31P5L5-1.0
M83513/08-F08	MCDR3-B-37P5L5-1.0
M83513/08-G08	MCDR3-B-51P5L5-1.0
M83513/08-A09	MCDR3-B- 9P6Q1-18.0
M83513/08-B09	MCDR3-B-15P6Q1-18.0
M83513/08-C09	MCDR3-B-21P6Q1-18.0
M83513/08-D09	MCDR3-B-25P6Q1-18.0
M83513/08-E09	MCDR3-B-31P6Q1-18.0
M83513/08-F09	MCDR3-B-37P6Q1-18.0
M83513/08-G09	MCDR3-B-51P6Q1-18.0
M83513/08-A10	MCDR3-B- 9P6Q1-36.0
M83513/08-B10	MCDR3-B-15P6Q1-36.0
M83513/08-C10	MCDR3-B-21P6Q1-36.0
M83513/08-D10	MCDR3-B-25P6Q1-36.0
M83513/08-E10	MCDR3-B-31P6Q1-36.0
M83513/08-F10	MCDR3-B-37P6Q1-36.0
M83513/08-G10	MCDR3-B-51P6Q1-36.0
M83513/08-A11	MCDR3-B- 9P6Q9-18.0
M83513/08-B11	MCDR3-B-15P6Q9-18.0
M83513/08-C11	MCDR3-B-21P6Q9-18.0
M83513/08-D11	MCDR3-B-25P6Q9-18.0
M83513/08-E11	MCDR3-B-31P6Q9-18.0
M83513/08-F11	MCDR3-B-37P6Q9-18.0
M83513/08-G11	MCDR3-B-51P6Q9-18.0
M83513/08-A12	MCDR3-B- 9P6Q9-36.0
M83513/08-B12	MCDR3-B-15P6Q9-36.0
M83513/08-C12	MCDR3-B-21P6Q9-36.0
M83513/08-D12	MCDR3-B-25P6Q9-36.0
M83513/08-E12	MCDR3-B-31P6Q9-36.0
M83513/08-F12	MCDR3-B-37P6Q9-36.0
M83513/08-G12	MCDR3-B-51P6Q9-36.0
M83513/08-A13	MCDR3-B- 9P6G1-72.0

Military Part No.	MICRODOT Part No.
M83513/08-B13	MCDR3-B-15P6G1-72.0
M83513/08-C13	MCDR3-B-21P6G1-72.0
M83513/08-D13	MCDR3-B-25P6G1-72.0
M83513/08-E13	MCDR3-B-31P6G1-72.0
M83513/08-F13	MCDR3-B-37P6G1-72.0
M83513/08-G13	MCDR3-B-51P6G1-72.0
M83513/08-A14	MCDR3-B- 9P6G9-72.0
M83513/08-B14	MCDR3-B-15P6G9-72.0
M83513/08-C14	MCDR3-B-21P6G9-72.0
M83513/08-D14	MCDR3-B-25P6G9-72.0
M83513/08-E14	MCDR3-B-31P6G9-72.0
M83513/08-F14	MCDR3-B-37P6G9-72.0
M83513/08-G14	MCDR3-B-51P6G9-72.0
M83513/08-A15	MCDR3-B- 9P6Q1-72.0
M83513/08-B15	MCDR3-B-15P6Q1-72.0
M83513/08-C15	MCDR3-B-21P6Q1-72.0
M83513/08-D15	MCDR3-B-25P6Q1-72.0
M83513/08-E15	MCDR3-B-31P6Q1-72.0
M83513/08-F15	MCDR3-B-37P6Q1-72.0
M83513/08-G15	MCDR3-B-51P6Q1-72.0
M83513/08-A16	MCDR3-B- 9P6Q9-72.0
M83513/08-B16	MCDR3-B-15P6Q9-72.0
M83513/08-C16	MCDR3-B-21P6Q9-72.0
M83513/08-D16	MCDR3-B-25P6Q9-72.0
M83513/08-E16	MCDR3-B-31P6Q9-72.0
M83513/08-F16	MCDR3-B-37P6Q9-72.0
M83513/08-G16	MCDR3-B-51P6Q9-72.0
M83513/09-A01	MCDR3-B- 9S6G1-18.0
M83513/09-B01	MCDR3-B-15S6G1-18.0
M83513/09-C01	MCDR3-B-21S6G1-18.0
M83513/09-D01	MCDR3-B-25S6G1-18.0
M83513/09-E01	MCDR3-B-31S6G1-18.0
M83513/09-F01	MCDR3-B-37S6G1-18.0
M83513/09-G01	MCDR3-B-51S6G1-18.0
M83513/09-A02	MCDR3-B- 9S6G1-36.0
M83513/09-B02	MCDR3-B-15S6G1-36.0
M83513/09-C02	MCDR3-B-21S6G1-36.0
M83513/09-D02	MCDR3-B-25S6G1-36.0
M83513/09-E02	MCDR3-B-31S6G1-36.0
M83513/09-F02	MCDR3-B-37S6G1-36.0
M83513/09-G02	MCDR3-B-51S6G1-36.0
M83513/09-A03	MCDR3-B- 9S6G9-18.0
M83513/09-B03	MCDR3-B-15S6G9-18.0
M83513/09-C03	MCDR3-B-21S6G9-18.0
M83513/09-D03	MCDR3-B-25S6G9-18.0
M83513/09-E03	MCDR3-B-31S6G9-18.0
M83513/09-F03	MCDR3-B-37S6G9-18.0
M83513/09-G03	MCDR3-B-51S6G9-18.0
M83513/09-A04	MCDR3-B- 9S6G9-36.0
M83513/09-B04	MCDR3-B-15S6G9-36.0
M83513/09-C04	MCDR3-B-21S6G9-36.0
M83513/09-D04	MCDR3-B-25S6G9-36.0
M83513/09-E04	MCDR3-B-31S6G9-36.0
M83513/09-F04	MCDR3-B-37S6G9-36.0
M83513/09-G04	MCDR3-B-51S6G9-36.0
M83513/09-A05	MCDR3-B- 9S5L4-0.5
M83513/09-B05	MCDR3-B-15S5L4-0.5
M83513/09-C05	MCDR3-B-21S5L4-0.5
M83513/09-D05	MCDR3-B-25S5L4-0.5
M83513/09-E05	MCDR3-B-31S5L4-0.5

Military Part No.	MICRODOT Part No.
M83513/09-F05	MCDR3-B-37S5L4-0.5
M83513/09-G05	MCDR3-B-51S5L4-0.5
M83513/09-A06	MCDR3-B- 9S5L4-1.0
M83513/09-B06	MCDR3-B-15S5L4-1.0
M83513/09-C06	MCDR3-B-21S5L4-1.0
M83513/09-D06	MCDR3-B-25S5L4-1.0
M83513/09-E06	MCDR3-B-31S5L4-1.0
M83513/09-F06	MCDR3-B-37S5L4-1.0
M83513/09-G06	MCDR3-B-51S5L4-1.0
M83513/09-A07	MCDR3-B- 9S5L5-0.5
M83513/09-B07	MCDR3-B-15S5L5-0.5
M83513/09-C07	MCDR3-B-21S5L5-0.5
M83513/09-D07	MCDR3-B-25S5L5-0.5
M83513/09-E07	MCDR3-B-31S5L5-0.5
M83513/09-F07	MCDR3-B-37S5L5-0.5
M83513/09-G07	MCDR3-B-51S5L5-0.5
M83513/09-A08	MCDR3-B- 9S5L5-1.0
M83513/09-B08	MCDR3-B-15S5L5-1.0
M83513/09-C08	MCDR3-B-21S5L5-1.0
M83513/09-D08	MCDR3-B-25S5L5-1.0
M83513/09-E08	MCDR3-B-31S5L5-1.0
M83513/09-F08	MCDR3-B-37S5L5-1.0
M83513/09-G08	MCDR3-B-51S5L5-1.0
M83513/09-A09	MCDR3-B- 9S6Q1-18.0
M83513/09-B09	MCDR3-B-15S6Q1-18.0
M83513/09-C09	MCDR3-B-21S6Q1-18.0
M83513/09-D09	MCDR3-B-25S6Q1-18.0
M83513/09-E09	MCDR3-B-31S6Q1-18.0
M83513/09-F09	MCDR3-B-37S6Q1-18.0
M83513/09-G09	MCDR3-B-51S6Q1-18.0
M83513/09-A10	MCDR3-B- 9S6Q1-36.0
M83513/09-B10	MCDR3-B-15S6Q1-36.0
M83513/09-C10	MCDR3-B-21S6Q1-36.0
M83513/09-D10	MCDR3-B-25S6Q1-36.0
M83513/09-E10	MCDR3-B-31S6Q1-36.0
M83513/09-F10	MCDR3-B-37S6Q1-36.0
M83513/09-G10	MCDR3-B-51S6Q1-36.0
M83513/09-A11	MCDR3-B- 9S6Q9-18.0
M83513/09-B11	MCDR3-B-15S6Q9-18.0
M83513/09-C11	MCDR3-B-21S6Q9-18.0
M83513/09-D11	MCDR3-B-25S6Q9-18.0
M83513/09-E11	MCDR3-B-31S6Q9-18.0
M83513/09-F11	MCDR3-B-37S6Q9-18.0
M83513/09-G11	MCDR3-B-51S6Q9-18.0
M83513/09-A12	MCDR3-B- 9S6Q9-36.0
M83513/09-B12	MCDR3-B-15S6Q9-36.0
M83513/09-C12	MCDR3-B-21S6Q9-36.0
M83513/09-D12	MCDR3-B-25S6Q9-36.0
M83513/09-E12	MCDR3-B-31S6Q9-36.0
M83513/09-F12	MCDR3-B-37S6Q9-36.0
M83513/09-G12	MCDR3-B-51S6Q9-36.0
M83513/09-A13	MCDR3-B- 9S6G1-72.0
M83513/09-B13	MCDR3-B-15S6G1-72.0
M83513/09-C13	MCDR3-B-21S6G1-72.0
M83513/09-D13	MCDR3-B-25S6G1-72.0
M83513/09-E13	MCDR3-B-31S6G1-72.0
M83513/09-F13	MCDR3-B-37S6G1-72.0
M83513/09-G13	MCDR3-B-51S6G1-72.0
M83513/09-A14	MCDR3-B- 9S6G9-72.0
M83513/09-B14	MCDR3-B-15S6G9-72.0

MIL-DTL-83513 Cross Reference (Continued)

MCDR (Plastic Shell) (Continued)

Military Part No.	MICRODOT Part No.
M83513/09-C14	MCDR3-B-21S6G9-72.0
M83513/09-D14	MCDR3-B-25S6G9-72.0
M83513/09-E14	MCDR3-B-31S6G9-72.0
M83513/09-F14	MCDR3-B-37S6G9-72.0
M83513/09-G14	MCDR3-B-51S6G9-72.0
M83513/09-A15	MCDR3-B- 9S6Q1-72.0
M83513/09-B15	MCDR3-B-15S6Q1-72.0

Military Part No.	MICRODOT Part No.
M83513/09-C15	MCDR3-B-21S6Q1-72.0
M83513/09-D15	MCDR3-B-25S6Q1-72.0
M83513/09-E15	MCDR3-B-31S6Q1-72.0
M83513/09-F15	MCDR3-B-37S6Q1-72.0
M83513/09-G15	MCDR3-B-51S6Q1-72.0
M83513/09-A16	MCDR3-B- 9S6Q9-72.0
M83513/09-B16	MCDR3-B-15S6Q9-72.0

Military Part No.	MICRODOT Part No.
M83513/09-C16	MCDR3-B-21S6Q9-72.0
M83513/09-D16	MCDR3-B-25S6Q9-72.0
M83513/09-E16	MCDR3-B-31S6Q9-72.0
M83513/09-F16	MCDR3-B-37S6Q9-72.0
M83513/09-G16	MCDR3-B-51S6Q9-72.0

MCK (Metal Shell)

Military Part No.	MICRODOT Part No.
M83513/10-A01*N	MCK**-B- 9PRT1
M83513/10-B01*N	MCK**-B- 15PRT1
M83513/10-C01*N	MCK**-B- 21PRT1
M83513/10-D01*N	MCK**-B- 25PRT1
M83513/10-E01*N	MCK**-B- 31PRT1
M83513/10-F01*N	MCK**-B- 37PRT1
M83513/10-A01*P	MCK**-P- 9PRT1
M83513/10-B01*P	MCK**-P- 15PRT1
M83513/10-C01*P	MCK**-P- 21PRT1
M83513/10-D01*P	MCK**-P- 25PRT1
M83513/10-E01*P	MCK**-P- 31PRT1
M83513/10-F01*P	MCK**-P- 37PRT1
M83513/10-A02*N	MCK**-B- 9PRT1A
M83513/10-B02*N	MCK**-B- 15PRT1A
M83513/10-C02*N	MCK**-B- 21PRT1A
M83513/10-D02*N	MCK**-B- 25PRT1A
M83513/10-E02*N	MCK**-B- 31PRT1A
M83513/10-F02*N	MCK**-B- 37PRT1A
M83513/10-A02*P	MCK**-P- 9PRT1A
M83513/10-B02*P	MCK**-P- 15PRT1A
M83513/10-C02*P	MCK**-P- 21PRT1A
M83513/10-D02*P	MCK**-P- 25PRT1A
M83513/10-E02*P	MCK**-P- 31PRT1A
M83513/10-F02*P	MCK**-P- 37PRT1A
M83513/10-A03*N	MCK**-B- 9PRT1B
M83513/10-B03*N	MCK**-B- 15PRT1B
M83513/10-C03*N	MCK**-B- 21PRT1B
M83513/10-D03*N	MCK**-B- 25PRT1B
M83513/10-E03*N	MCK**-B- 31PRT1B
M83513/10-F03*N	MCK**-B- 37PRT1B
M83513/10-A03*P	MCK**-P- 9PRT1B
M83513/10-B03*P	MCK**-P- 15PRT1B
M83513/10-C03*P	MCK**-P- 21PRT1B
M83513/10-D03*P	MCK**-P- 25PRT1B
M83513/10-E03*P	MCK**-P- 31PRT1B
M83513/10-F03*P	MCK**-P- 37PRT1B
M83513/11-G01*N	MCK**-B- 51PRT1
M83513/11-G01*P	MCK**-P- 51PRT1
M83513/11-G02*N	MCK**-B- 51PRT1A
M83513/11-G02*P	MCK**-P- 51PRT1A
M83513/11-G03*N	MCK**-B- 51PRT1B
M83513/11-G03*P	MCK**-P- 51PRT1B
M83513/12-H01*N	MCK**-B-100PRT1
M83513/12-H01*P	MCK**-S-100PRT1
M83513/12-H02*N	MCK**-B-100PRT1A
M83513/12-H02*P	MCK**-S-100PRT1A
M83513/12-H03*N	MCK**-B-100PRT1B

Military Part No.	MICRODOT Part No.
M83513/12-H03*P	MCK**-S-100PRT1B
M83513/13-A01*N	MCK**-B- 9SRT1
M83513/13-B01*N	MCK**-B- 15SRT1
M83513/13-C01*N	MCK**-B- 21SRT1
M83513/13-D01*N	MCK**-B- 25SRT1
M83513/13-E01*N	MCK**-B- 31SRT1
M83513/13-F01*N	MCK**-B- 37SRT1
M83513/13-A01*P	MCK**-P- 9SRT1
M83513/13-B01*P	MCK**-P- 15SRT1
M83513/13-C01*P	MCK**-P- 21SRT1
M83513/13-D01*P	MCK**-P- 25SRT1
M83513/13-E01*P	MCK**-P- 31SRT1
M83513/13-F01*P	MCK**-P- 37SRT1
M83513/13-A02*N	MCK**-B- 9SRT1A
M83513/13-B02*N	MCK**-B- 15SRT1A
M83513/13-C02*N	MCK**-B- 21SRT1A
M83513/13-D02*N	MCK**-B- 25SRT1A
M83513/13-E02*N	MCK**-B- 31SRT1A
M83513/13-F02*N	MCK**-B- 37SRT1A
M83513/13-A02*P	MCK**-P- 9SRT1A
M83513/13-B02*P	MCK**-P- 15SRT1A
M83513/13-C02*P	MCK**-P- 21SRT1A
M83513/13-D02*P	MCK**-P- 25SRT1A
M83513/13-E02*P	MCK**-P- 31SRT1A
M83513/13-F02*P	MCK**-P- 37SRT1A
M83513/13-A03*N	MCK**-B- 9SRT1B
M83513/13-B03*N	MCK**-B- 15SRT1B
M83513/13-C03*N	MCK**-B- 21SRT1B
M83513/13-D03*N	MCK**-B- 25SRT1B
M83513/13-E03*N	MCK**-B- 31SRT1B
M83513/13-F03*N	MCK**-B- 37SRT1B
M83513/13-A03*P	MCK**-P- 9SRT1B
M83513/13-B03*P	MCK**-P- 15SRT1B
M83513/13-C03*P	MCK**-P- 21SRT1B
M83513/13-D03*P	MCK**-P- 25SRT1B
M83513/13-E03*P	MCK**-P- 31SRT1B
M83513/13-F03*P	MCK**-P- 37SRT1B
M83513/14-G01*N	MCK**-B- 51SRT1
M83513/14-G01*P	MCK**-P- 51SRT1
M83513/14-G02*N	MCK**-B- 51SRT1A
M83513/14-G02*P	MCK**-P- 51SRT1A
M83513/14-G03*N	MCK**-B- 51SRT1B
M83513/14-G03*P	MCK**-P- 51SRT1B
M83513/15-H01*N	MCK**-B-100SRT1
M83513/15-H01*P	MCK**-S-100SRT1
M83513/15-H02*N	MCK**-B-100SRT1A
M83513/15-H02*P	MCK**-S-100SRT1A

Military Part No.	MICRODOT Part No.
M83513/15-H03*N	MCK**-B-100SRT1B
M83513/15-H03*P	MCK**-S-100SRT1B
M83513/22-A01*N	MCK**-B- 9PST1
M83513/22-B01*N	MCK**-B- 15PST1
M83513/22-C01*N	MCK**-B- 21PST1
M83513/22-D01*N	MCK**-B- 25PST1
M83513/22-E01*N	MCK**-B- 31PST1
M83513/22-F01*N	MCK**-B- 37PST1
M83513/22-A01*P	MCK**-P- 9PST1
M83513/22-B01*P	MCK**-P- 15PST1
M83513/22-C01*P	MCK**-P- 21PST1
M83513/22-D01*P	MCK**-P- 25PST1
M83513/22-E01*P	MCK**-P- 31PST1
M83513/22-F01*P	MCK**-P- 37PST1
M83513/22-A02*N	MCK**-B- 9PST1A
M83513/22-B02*N	MCK**-B- 15PST1A
M83513/22-C02*N	MCK**-B- 21PST1A
M83513/22-D02*N	MCK**-B- 25PST1A
M83513/22-E02*N	MCK**-B- 31PST1A
M83513/22-F02*N	MCK**-B- 37PST1A
M83513/22-A02*P	MCK**-P- 9PST1A
M83513/22-B02*P	MCK**-P- 15PST1A
M83513/22-C02*P	MCK**-P- 21PST1A
M83513/22-D02*P	MCK**-P- 25PST1A
M83513/22-E02*P	MCK**-P- 31PST1A
M83513/22-F02*P	MCK**-P- 37PST1A
M83513/22-A03*N	MCK**-B- 9PST1B
M83513/22-B03*N	MCK**-B- 15PST1B
M83513/22-C03*N	MCK**-B- 21PST1B
M83513/22-D03*N	MCK**-B- 25PST1B
M83513/22-E03*N	MCK**-B- 31PST1B
M83513/22-F03*N	MCK**-B- 37PST1B
M83513/22-A03*P	MCK**-P- 9PST1B
M83513/22-B03*P	MCK**-P- 15PST1B
M83513/22-C03*P	MCK**-P- 21PST1B
M83513/22-D03*P	MCK**-P- 25PST1B
M83513/22-E03*P	MCK**-P- 31PST1B
M83513/22-F03*P	MCK**-P- 37PST1B
M83513/23-G01*N	MCK**-B- 51PST1
M83513/23-G01*P	MCK**-P- 51PST1
M83513/23-G02*N	MCK**-B- 51PST1A
M83513/23-G02*P	MCK**-P- 51PST1A
M83513/23-G03*N	MCK**-B- 51PST1B
M83513/23-G03*P	MCK**-P- 51PST1B
M83513/24-H01*N	MCK**-B-100PST1
M83513/24-H01*P	MCK**-S-100PST1
M83513/24-H02*N	MCK**-B-100PST1A

MIL-DTL-83513 Cross Reference (Continued)

MCK (Metal Shell) (Continued)

Military Part No.	MICRODOT Part No.	Military Part No.	MICRODOT Part No.	Military Part No.	MICRODOT Part No.
M83515/24-H02*P	MCK-**-S-100PST1A	M83513/25-C02*N	MCK-**-B- 21SST1A	M83513/25-B03*P	MCK-**-P- 15SST1B
M83513/24-H03*N	MCK-**-B-100PST1B	M83513/25-D02*N	MCK-**-B- 25SST1A	M83513/25-C03*P	MCK-**-P- 21SST1B
M83513/24-H03*P	MCK-**-S-100PST1B	M83513/25-E02*N	MCK-**-B- 31SST1A	M83513/25-D03*P	MCK-**-P- 25SST1B
M83513/25-A01*N	MCK-**-B- 9SST1	M83513/25-F02*N	MCK-**-B- 37SST1A	M83513/25-E03*P	MCK-**-P- 31SST1B
M83513/25-B01*N	MCK-**-B- 15SST1	M83513/25-A02*P	MCK-**-P- 9SST1A	M83513/25-F03*P	MCK-**-P- 37SST1B
M83513/25-C01*N	MCK-**-B- 21SST1	M83513/25-B02*P	MCK-**-P- 15SST1A	M83513/26-G01*N	MCK-**-B- 51SST1
M83513/25-D01*N	MCK-**-B- 25SST1	M83513/25-C02*P	MCK-**-P- 21SST1A	M83513/26-G01*P	MCK-**-P- 51SST1
M83513/25-E01*N	MCK-**-B- 31SST1	M83513/25-D02*P	MCK-**-P- 25SST1A	M83513/26-G02*N	MCK-**-B- 51SST1A
M83513/25-F01*N	MCK-**-B- 37SST1	M83513/25-E02*P	MCK-**-P- 31SST1A	M83513/26-G02*P	MCK-**-P- 51SST1A
M83513/25-A01*P	MCK-**-P- 9SST1	M83513/25-F02*P	MCK-**-P- 37SST1A	M83513/26-G03*N	MCK-**-B- 51SST1B
M83513/25-B01*P	MCK-**-P- 15SST1	M83513/25-A03*N	MCK-**-B- 9SST1B	M83513/26-G03*P	MCK-**-P- 51SST1B
M83513/25-C01*P	MCK-**-P- 21SST1	M83513/25-B03*N	MCK-**-B- 15SST1B	M83513/27-H01*N	MCK-**-B-100SST1
M83513/25-D01*P	MCK-**-P- 25SST1	M83513/25-C03*N	MCK-**-B- 21SST1B	M83513/27-H01*P	MCK-**-S-100SST1
M83513/25-E01*P	MCK-**-P- 31SST1	M83513/25-D03*N	MCK-**-B- 25SST1B	M83513/27-H02*N	MCK-**-B-100SST1A
M83513/25-F01*P	MCK-**-P- 37SST1	M83513/25-E03*N	MCK-**-B- 31SST1B	M83515/27-H02*P	MCK-**-S-100SST1A
M83513/25-A02*N	MCK-**-B- 9SST1A	M83513/25-F03*N	MCK-**-B- 37SST1B	M83513/27-H03*N	MCK-**-B-100SST1B
M83513/25-B02*N	MCK-**-B- 15SST1A	M83513/25-A03*P	MCK-**-P- 9SST1B	M83513/27-H03*P	MCK-**-S-100SST1B

*C = Cadmium or N = Nickel (space applications only)

**C2 = Cadmium or N1 = Nickel (space applications only)

MICRODOT Rectangular Connectors Introduction

Product Facts

- Designed for both military and commercial applications
- Well-suited for external conditions
- Precise contact alignment with extremely low engaging forces
- Product offering consists of metal shell, plastic shell, panel mount, printed circuit board and strip connectors
- Metal shell connector promotes high durability and reliability



Twist Pin contact High Density Microminiature Connectors described in this catalog comprise a complete contact system which is adaptable to a numerous variety of form factors. Precise contact alignment, with extremely low engaging forces, results from the manner in which the Twist Pin contact system is packaged — by constructing the male contact as a breathing helical spring, electrical contact is achieved at many points around the periphery of the pin bundle.

Featured in this catalog is the twist pin contact line, which accommodates round wire and Flat Conductor Cable (FCC), Edgeboard Connectors.

Applications requiring frequent mating and disconnect call for the metal shell connector version. This style connector promotes high durability and reliability.

Designed for both military and aerospace applications, this latest innovation is especially well-suited to use in external conditions.

This catalog also features light-weight plastic

connectors in a strip (MCS) format as well as JACKMATE Connectors (MCJ Series) format for small package application requiring high reliability.

Edgeboard applications are covered in this catalog with a special High Density Standard Module (HDSM) Connector as well as MIL-DTL-55302 (MCEM) Connectors. The high mating forces of these larger connectors are greatly reduced with the use of the low force twist pins and sockets which are standard for this product line.

MICRODOT Twist Pin Contact Data

Twist Pin — 24 gauge Pin and Socket Contacts

The contact spring member normally found in socket contacts has been eliminated by creating a breathing helical spring principle on the pin contact — smaller, more durable contacts can be manufactured economically.



Wire range 24-36 AWG solid & stranded.



Stamped and Formed

24 gauge Pin and Socket contact

The Stamped and Formed Pin contact utilizes a 4 beam design that will achieve 8 points of contact. The crimped version of the Stamped and Formed contact will

accept a 24AWG-36AWG stranded wire. The Solder pot version of the Stamped and Formed contact is a one piece design that eliminates the need for a solder pot adapter.

MICRODOT MCE Series Plastic Shell Edgeboard Connectors

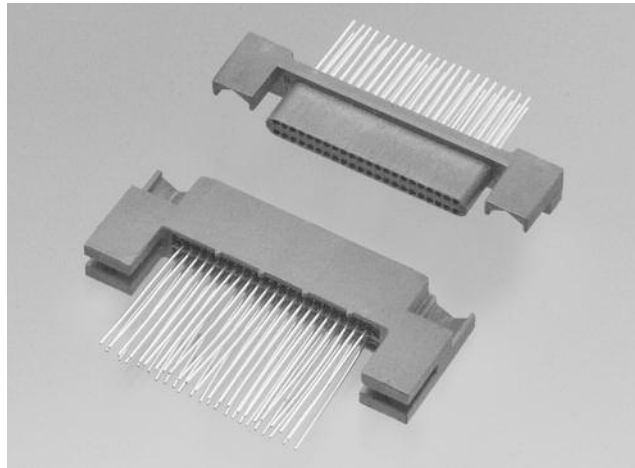
Plastic Shell Edge Board Connectors

Designed for commercial applications requiring frequent disconnect and connect, including data recorders and computers. Mother board connector can be ordered to fit any pattern on your circuit board.

This new connector features the proven twist pin contact with precision contact alignment with extremely low engaging forces.

Units are available with contacts as few as 40 and as many as 110. Wire sizes 28 through 24, any type of plating or color coding, any kind of wire termination including wire wrap — a high degree of flexibility for your military or commercial application.

Two hexagonal polarizing keys can provide up to 36 different key combinations are supplied.



40 Contacts

Technical & Performance Data — Twist Pin Plastic Shell Connectors

Electrical

Contact Resistance — The average mated contact resistance is 4 milliohms, with a maximum value of 8 milliohms, using standard 24 AWG solid copper leads when measured directly behind the crimp joints of the mated pin and socket contacts. The average resistance value at 100 microvolts is 4.8 milliohms.

Dielectric Withstanding

Voltage — 800 VAC RMS at sea level (600 for solder pots); 200 VAC RMS at 70,000 feet [21,336m] (150 for solder pots).

Corrosion Resistance (Per MIL-STD-202C, Method 101B, Condition B) — Both mated and unmated samples do not exceed the maximum allowable contact resistance (8 milliohms) when subjected to the 48 hour salt spray test.

Durability — The contact resistance after 500 mating cycles is less than the maximum allowable, 8 milliohms.

Insulation Resistance — Greater than 5,000 megohms at room temperature.

Maximum Current Carrying Capacity

— No. 24 contact 3 amperes. It must be recognized however, that all the wires to a connector will not carry their maximum current under all environmental conditions due to wire temperature.

Mechanical

Contact Engaging & Separation Forces

— 8.0 oz. max. [2.24N] (eng.), 0.5 oz. min. [.14N] (sep.)

Environmental

Temperature Range (Operating) — -67°F to 257°F [-55° C to +125°C].

Vibration (Per MIL-STD-202C, Method 204A, Condition D) —

No discontinuity in excess of 1 μ sec. during twelve 20 minute sweeps from 10 to 2000 CPS at .06 double amplitude or 20 G forces, whichever is less.

Materials

Insulator — Liquid Crystal Polymer (LCP) per ASTM D5138 or Polyphenylene Sulfide per MIL-M-24519 or ASTM D4067.

Contacts

Pin contact — Copper alloy and beryllium copper alloy make up the complete construction.

Socket contact — Copper alloy.

Hardware — Corrosion resistant stainless steel.

Finishes

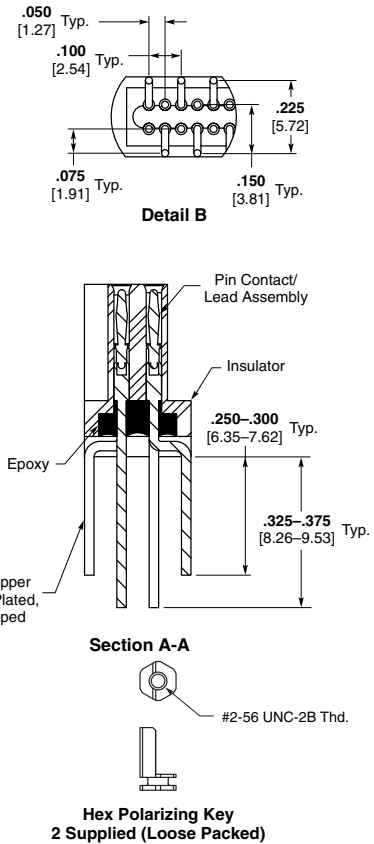
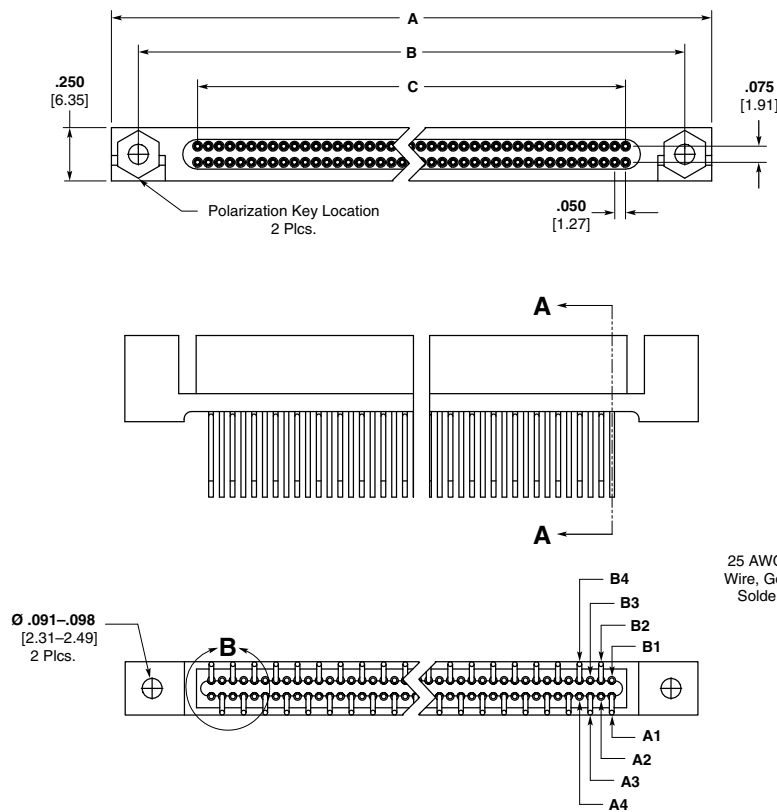
Insulator — None.

Contacts — Standard finish is 0.000050 [0.00127] gold over copper flash per MIL-G-45204, Type II.

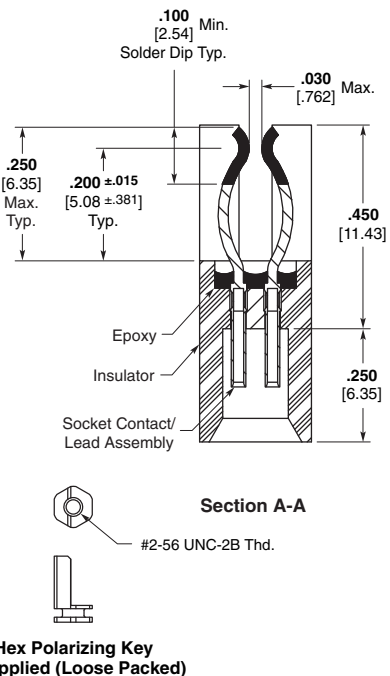
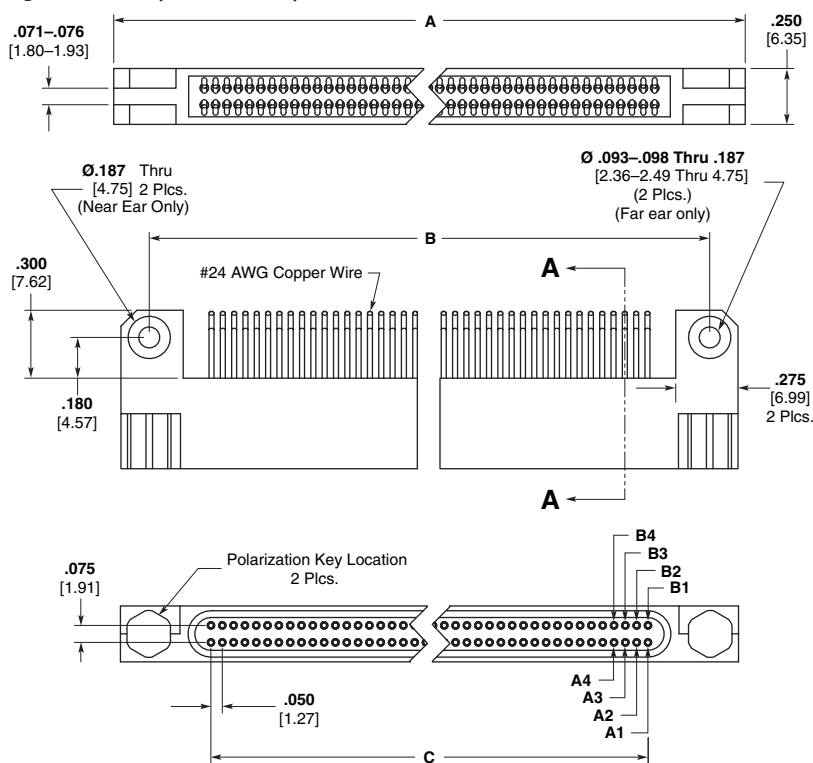
Hardware — Passivated per QQ-P-35.

MICRODOT MCE Series Plastic Shell Edgeboard Connectors (Continued)

Mother Board (Pin Side)



Daughter Board (Socket Side)



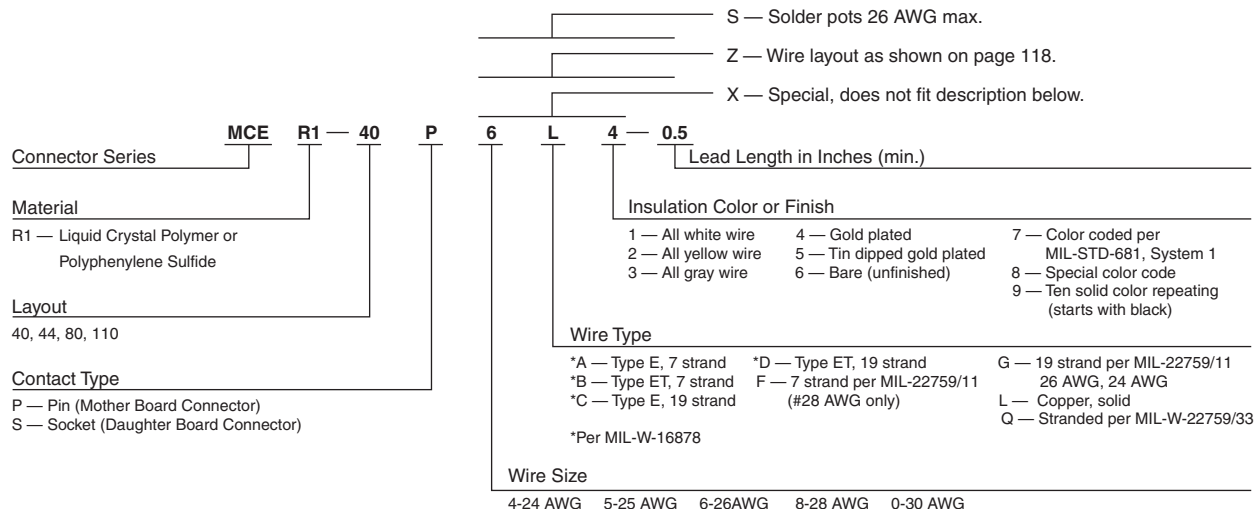
MICRODOT MCE Series Plastic Shell Edgeboard Connectors (Continued)

Dimensions for .062 [1.57] PC Board

No. of Contacts	A ± .010 [± .254]	B ± .005 [± .127]	C Basic
40	1.750 44.45	1.500 38.10	.950 24.13
44	1.850 46.99	1.600 40.64	1.050 26.67
80	2.750 69.85	2.500 63.50	1.950 49.53
110	3.500 88.90	3.250 82.55	2.700 68.58

Notes: For PC Boards of different widths, consult TE Connectivity.

How To Specify

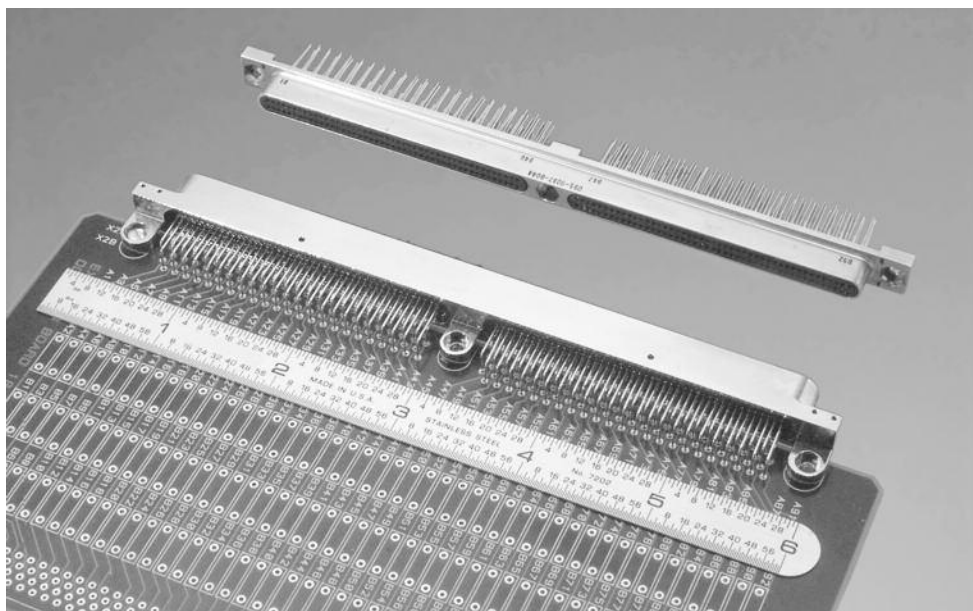


Mounting — Holes on the Daughter Board side can be modified.

MICRODOT MCEM Series Metal Shell Edgeboard Connectors

Metal Shell Edge Board Connectors

- Meets MIL-DTL-55302 performance requirements
- Layouts 128 and 184 are QPL to slash sheets 120, 121, 122 and 123
- Connectors are available in 40, 44, 80, 110, 128, 152, and 184 positions
- Utilizes low force twist pins and our low force sockets. Mating forces in the 3 to 4 oz. [.83 to 1.11N] range per contact are typical with low force pin and low force socket
- Designed for surface mounting and through-the-board mounting
- Available termination
 - Mother board (pin side) — cactus bend
 - Daughter board (socket side) — coke bottle, right-angle bend to “A” or “B” side
 - Solder pots, and variety of other wire terminations for pin and socket connectors available at customer's request
- Two hexagonal polarizing keys (per MIL-DTL-55302 slash sheet 124) are provided. Jackscrew hardware is available. For programmable keying/jacking modifications consult TE Connectivity



In addition to the plastic versions of the 2 piece edgeboard connectors, a metal shell assembly is designed and tooled. The metal shells are made of aluminum alloy. The insert material is Diallyl phthalate, Polyphenylene sulfide (RYTON), or Liquid Crystal Polymer (LCP). The technical and performance data is

essentially the same as that shown for the MCDM Series on page 5-72. These are rugged, durable connectors and are ideal for use in areas of high density packaging and where frequent connect and disconnects are required. Designed initially for applications in airborne data recorders, computers and associated

equipment in navigational systems. The mother board connector can be ordered to fit any pattern on the circuit board. The units can also be provided with contacts on .100 [2.54] spacing which results in .100 [2.54] grid pattern.

Performance Data

Electrical

Contact Resistance — The average mated contact resistance is 4 milliohms, with a maximum value of 8 milliohms. The average resistance value at 100 microvolts is 4.8 milliohms.

Dielectric Withstanding Voltage — 800 VAC RMS at sea level (600 for solder pots); 200 VAC RMS at 70,000 feet [21,336m] (150 for solder pots).

Durability — Less than the maximum allowable, 8 milliohms after 500 mating cycles.

Insulation Resistance — Greater than 5,000 megohms at room ambient temperature.

Maximum Current Carrying

Capacity — No. 24 contact 3 amperes.

Mechanical

Contact Engaging & Separation Forces — 5.0 oz. max. [1.39N] (eng.), 0.5 oz. min. [.14N] (sep.).

Environmental

Temperature Range — -67°F to 302°F [-55°C to +150°C] for Diallyl Phthalate; -67°F to 257°F [-55°C to +125°C] for Polyphenylene Sulfide.

Vibration — No discontinuity in excess of 1 μ sec. during twelve 20 minute sweeps from 10 to 2000 CPS at .06 double amplitude or 20 G forces, whichever is less.

Materials and Finish

Shells — High grade aluminum alloy, electroless nickel plated per AMS 2404.

Insulator — Diallyl Phthalate per MIL-M-14, Type SDG-F (for 128 & 184); Polyphenylene Sulfide per MIL-M-24519 or ASTM D4067 (for 40, 44, 80, 110 & 152), or Liquid Crystal Polymer per ASTM D5138.

Contacts

Pin (low force) — beryllium and OFHC copper, gold plated.

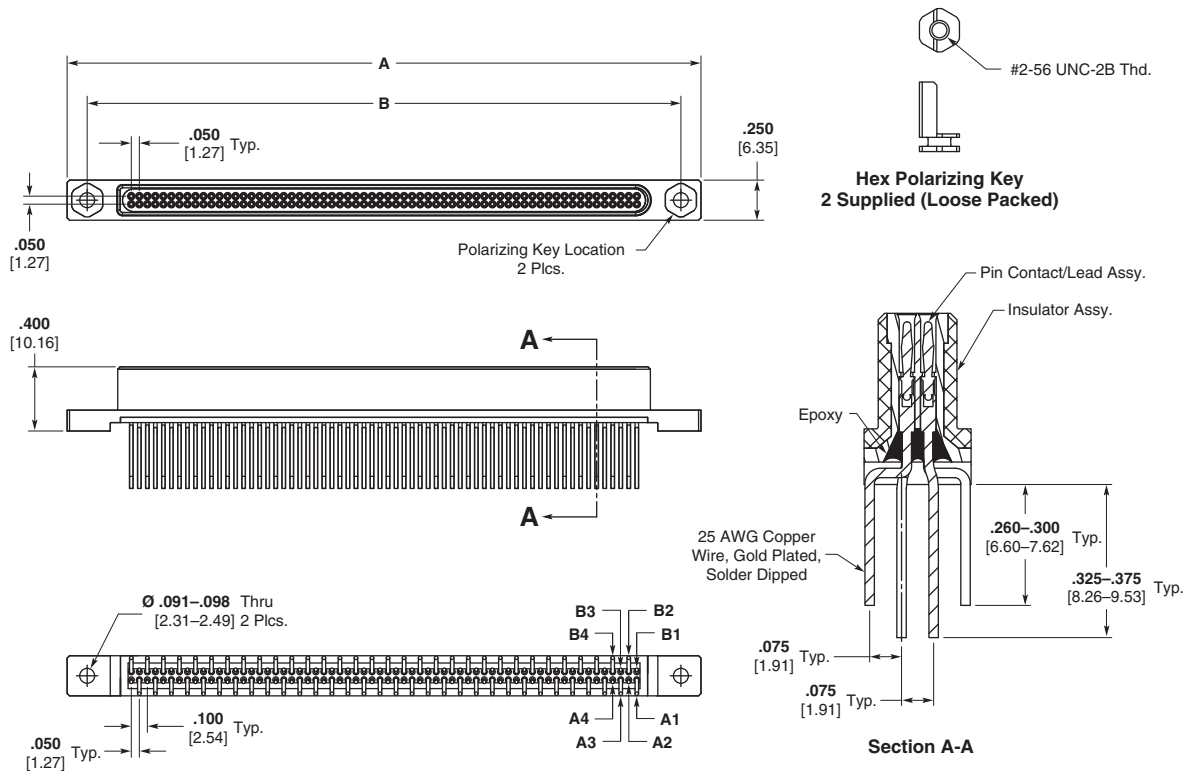
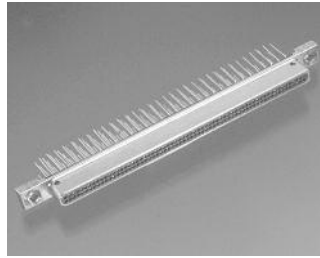
Socket (low force) — Copper alloy, gold plated.

Hardware — Corrosion resistant stainless steel, passivated.

RYTON is a trademark of Chevron Chemical Company LLC.

MICRODOT MCEM Series Metal Shell Edgeboard Connectors (Continued)

Mother Board (Pin Side)
40, 44, 80, 110, 128 & 152
Positions



Dimensions for .062 [1.57] PC Board

No. of Contacts	A $\pm .010$ [$\pm .254$]	B $\pm .005$ [$\pm .127$]
40	1.750 44.45	1.500 38.10
44	1.850 46.99	1.600 40.64
80	2.750 69.85	2.500 63.50
110	3.500 88.90	3.250 82.55
128	3.950 100.33	3.700 93.98
152	4.550 115.57	4.330 109.98

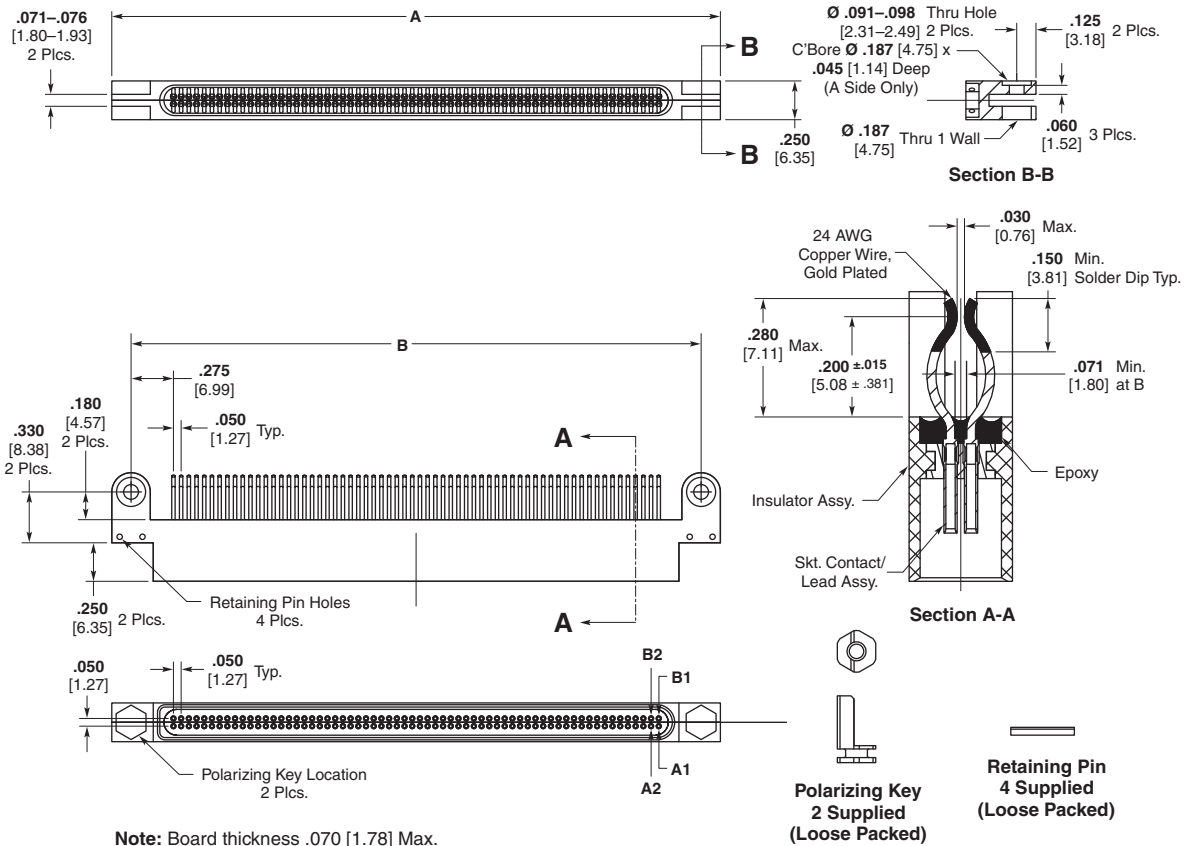
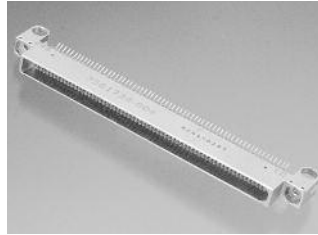
Note: For PC Boards of different widths, consult TE Connectivity.

Items in bold italic are qualified to MIL-DTL-55302.
Configuration shown is per MIL-DTL-55302/120.

MICRODOT MCEM Series Metal Shell Edgeboard Connectors (Continued)

**Daughter Board
(Socket Side)**

**40, 44, 80, 110, 128 & 152
Positions**



How To Specify

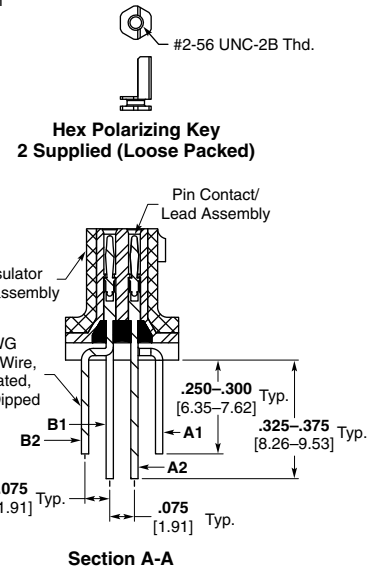
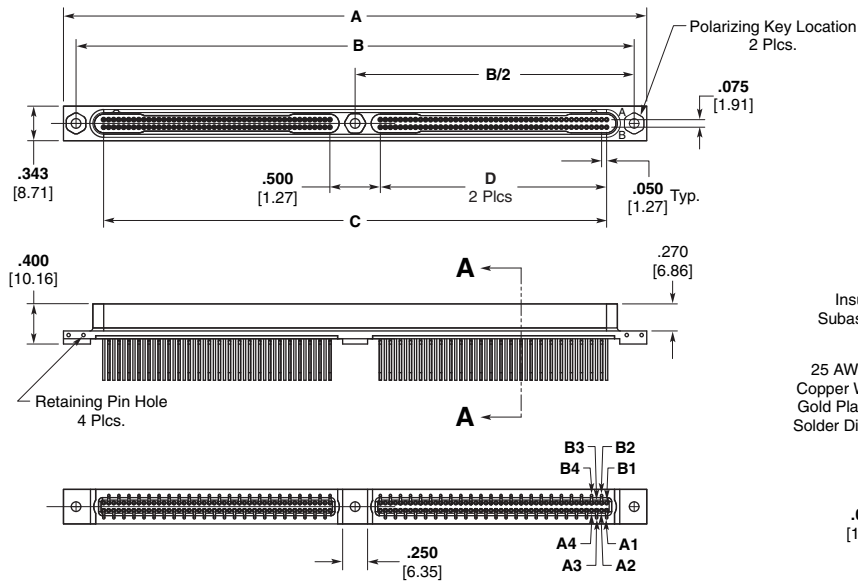
Connector Series	MCE	M1 — 128	L	6	L	4	0.5	Lead Length in Inches (min.)
Material								Insulation Color or Finish
M1 — Metal Shell (40, 44, 80, 110, 128, 152, 184)								1 — All white wire
SM1 — Metal Shell (152)								2 — All yellow wire
Layout								3 — All gray wire
40, 44, 80, 110, 128, 152, 184								4 — Gold plated
Contact Type								5 — Tin dipped gold plated
L — Low Force Pin (Mother Board Connector)								6 — Bare (unfinished)
SL — Low Force Socket* (Daughter Board Connector)								7 — Color coded per MIL-STD-681, System 1
								8 — Special color code
								9 — Ten solid color repeating (starts with black)
								Wire Type
								*A — Type E, 7 strand
								*B — Type ET, 7 strand
								*C — Type E, 19 strand
								*D — Type ET, 19 strand
								F — 7 strand per MIL-C-22759/11 (#28 AWG only)
								G — 19 strand per MIL-C-22759/11 26 AWG, 24 AWG
								L — Copper, solid
								Q — Stranded per MIL-W-22759/33
								*Per MIL-W-16878
								Wire Size
								4-24 AWG 5-25 AWG 6-26 AWG 8-28 AWG 0-30 AWG

Items in bold italic are qualified to MIL-DTL-55302.
Configuration shown is per MIL-DTL-55302/121.

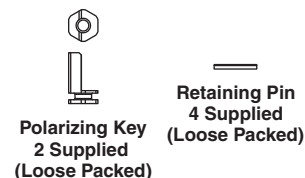
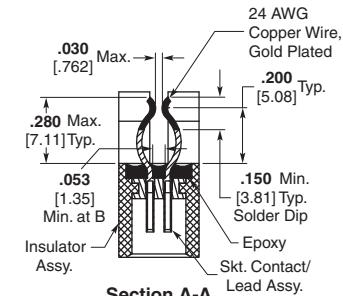
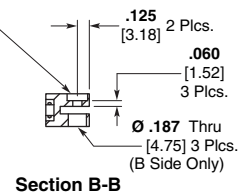
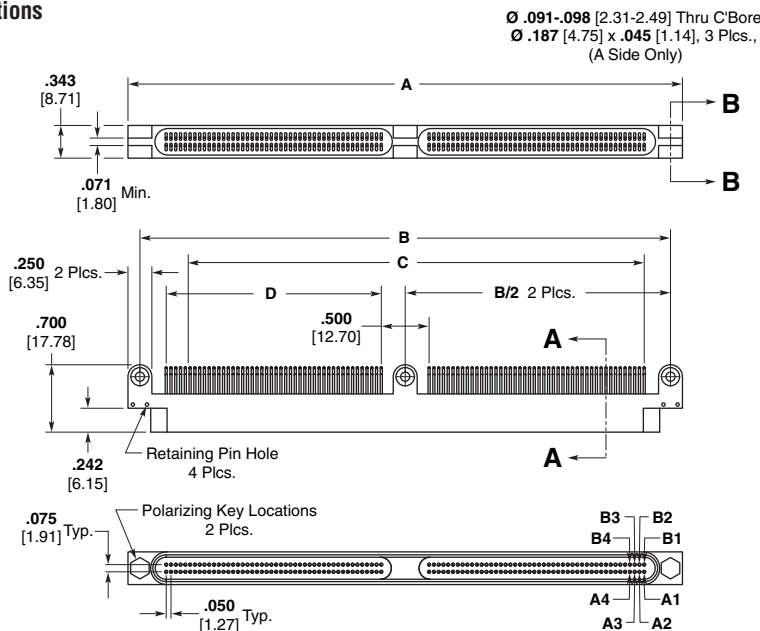
Polarization — Hexagonal hardware is supplied with connector.
Mounting — Standard mounting holes are shown. Consult TE Connectivity for modifications.

MICRODOT MCEM Series Metal Shell Edgeboard Connectors (Continued)

Mother Board (Pin Side)
184 Positions

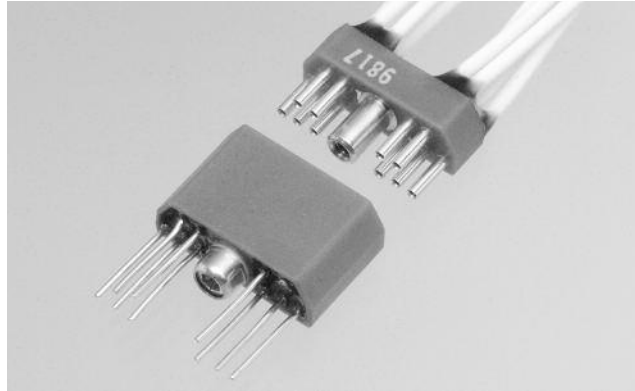


Daughter Board (Socket Side)
184 Positions



No. of Contacts	A ± .010 [± .254]	B ± .005 [± .127]	C Basic	D Basic
184	5.800 147.32	5.550 140.97	5.000 127.00	2.250 57.15

MICRODOT JACKMATE MCJ(M) Series Plastic (Metal) Shell Center Jackscrew Connectors



JACKMATE Connectors are the first Twist Pin contact assemblies designed to accommodate center jackscrews that provide jacking action when mating or unmating the connectors. Although the units were initially developed for high density cord-to-cord or in-line applications, either plug or receptacle can be

adapted to a PC board. The jacking hardware consists of a threaded bushing and a captivated jackscrew which are made of corrosion resistant stainless steel and are molded into the JACKMATE Connector Insulator.

The twist pin contacts are on .050 [1.27] center-to-

center linear spacing and contact terminations are available in solid wire or stranded wire. There is a high degree of flexibility with this JACKMATE connector design for commercial or military applications.

Available on MCJ(M) Series Plastic (Metal) Shells.

MICRODOT JACKMATE MCJ Series Plastic Shell Center Jackscrew Connectors

JACKMATE Technical & Performance Data for Plastic Shell

Electrical

Contact Resistance — The average mated contact resistance is 4 milliohms, with a maximum value of 8 milliohms, using standard 24 AWG solid copper leads when measured directly behind the crimp joints of the mated pin and socket contacts. The average resistance value at 100 microvolts is 4.8 milliohms.

Dielectric Withstanding Voltage (60 Hz rms room temperature) —

Solder Pots — 600 VAC at sea level; 150 VAC at 70,000 feet [21,336m]

Wire Terminations — 750 VAC at sea level; 200 VAC at 70,000 feet [21,336m].

Corrosion Resistance (Per MIL-STD-202C, Method 101B, Condition B) — Both mated and unmated samples do not

exceed the maximum allowable contact resistance (8 milliohms) when subjected to the 48 hour salt spray test.

Durability — The contact resistance after 500 mating cycles is less than the maximum allowable, 8 milliohms.

Insulation Resistance — Greater than 5,000 megohms at room temperature for the materials listed under "Materials".

Maximum Current Carrying Capacity — No. 24 contact 3 amperes. It must be recognized, however, that all the wires to a connector will not carry their maximum current under all environmental conditions due to wire temperature.

Mechanical

Contact Engaging & Separation Forces

— 8.0 oz. max. [2.22N] (eng.), 0.5 oz. min. [1.4N] (sep.).

Environmental

Temperature Range (Operating) — -67°F to 257°F [-55°C to 125°C].

Vibration (Per MIL-STD-202C, Method 204-A, Condition D) — No discontinuity in excess of 1 μ sec. during twelve 20 minute sweeps from 10 to 2000 CPS at .06 double amplitude or 20 G forces, whichever is less.

Materials

Insulator — Glass filled Nylon Type 6.

Contacts

Pin contact — copper alloy and beryllium copper alloy make up the complete construction

Socket contact — copper alloy.

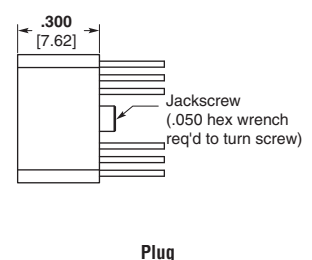
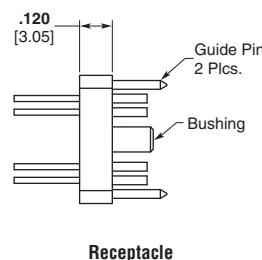
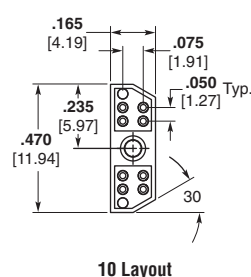
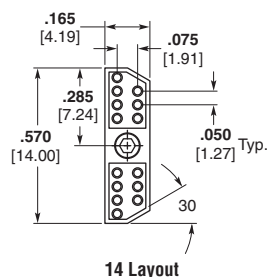
Hardware — Corrosive resistant stainless steel.

Finishes

Contacts — Standard finish is 0.000050 [0.00127] gold over copper flash per MIL-G-45204, Type II.

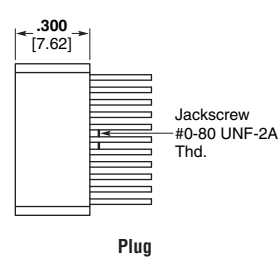
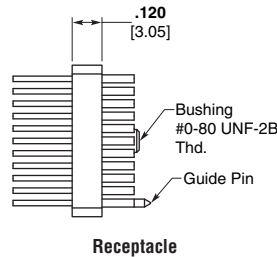
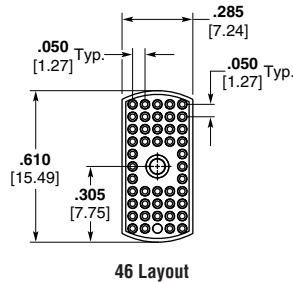
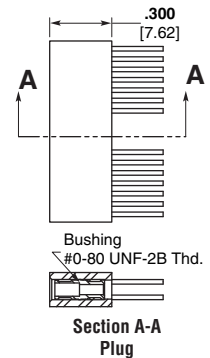
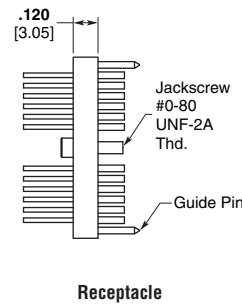
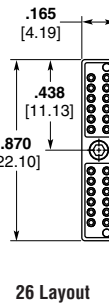
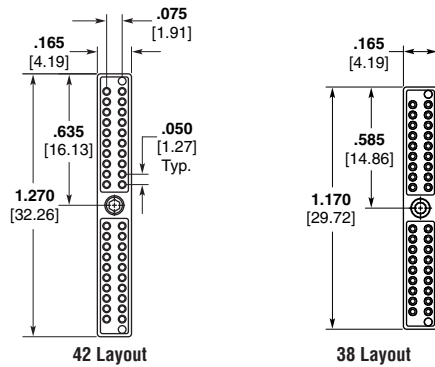
Hardware — Passivated Per QQ-P-35.

10 & 14 Contact Layout

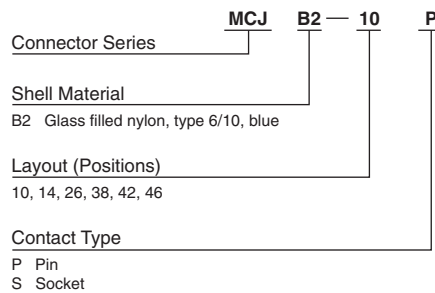


MICRODOT JACKMATE MCJ Series Plastic Shell Center Jackscrew Connectors (Continued)

26, 38 & 46 Contact Layout

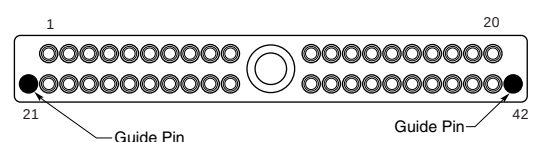
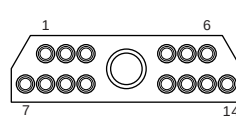
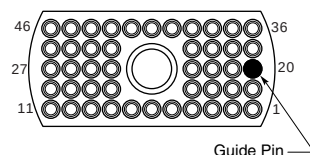
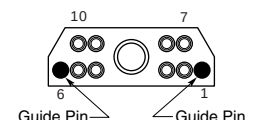
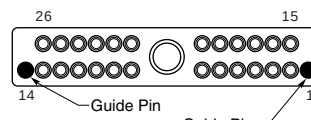
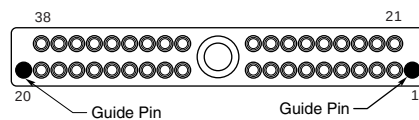


How To Specify



S	Solder pot for 26 AWG maximum stranded wire.
X	Special, does not fit description below.
4	Lead Length in Inches (min.)
L	Insulation Color or Finish
4	0.5
0.5	Wire Type
1	All white wire
2	All yellow wire
3	All gray wire
4	Gold plated
5	Tin dipped gold plated
6	Bare (unfinished)
7	Color coded per MIL-STD-681, System 1
8	Special color code
9	Ten solid color repeating (starts with black)
*A	Type E, 7 strand
*B	Type ET, 7 strand
*C	Type E, 19 strand
*D	Type ET, 19 strand
F	7 strand per MIL-C-22759/11 (#28 AWG only)
G	19 strand per MIL-C-22759/11 26 AWG, 24 AWG
L	Copper, solid
Q	Stranded per MIL-W-22759/33
	*Per MIL-W-16878
	Wire Size
4—24 AWG	5—25 AWG
6—26 AWG	8—28 AWG
0—30 AWG	

Contact Arrangement as Viewed from the Engaging Face of the Pin Side



Guide pin locations illustrated are for standards configuration only. Any location is available. Guide pins are supplied in socket connectors and blank cavities in pin connector.

MICRODOT JACKMATE MCJM Series Metal Shell Center Jackscrew Connectors

Technical and Performance Data for Metal Shell

Electrical

Contact Resistance — The average mated contact resistance is 4 milliohms, with a maximum value of 8 milliohms, using standard 24 AWG solid copper leads when measured directly behind the crimp joints of the mated pin and socket contacts. The average resistance value at 100 microvolts is 4.8 milliohms.

Dielectric Withstanding Voltage (60 Hz rms room temperature) —

Solder Pots — 600 VAC at sea level; 150 VAC at 70,000 feet [21,336m].

Wire Terminations — 750 VAC at sea level; 200 VAC at 70,000 feet [21,336m].

Corrosion Resistance (Per MIL-STD-202C, Method 101B, Condition B) — Both mated and unmated samples do not exceed the maximum allowable contact resistance (8 milliohms) when subjected to the 48 hour salt spray test.

Durability — The contact resistance after 500 mating cycles is less than the maximum allowable, 8 milliohms.

Insulation Resistance — Greater than 5,000 megohms at room temperature for the materials listed under "Materials".

Maximum Current Carrying Capacity — No. 24 contact 3 amperes. It must be recognized, however, that all the wires to a connector will not carry their maximum current under all environmental conditions due to wire temperature.

Mechanical

Contact Engaging & Separation Forces — 8.0 oz. max. [2.22N] (eng.), 0.5 oz. min. [1.4N] (sep.).

Environmental

Temperature Range (Operating) — -67°F to 302°F [-55°C to 150°C] for Diallyl Phthalate.

Vibration (Per MIL-STD-202C, Method 204-A, Condition D) — No discontinuity in excess of 1 μ sec. during twelve 20 minute sweeps from 10 to 2000 CPS at .06 double amplitude or 20 G forces, whichever is less.

Materials

Insulator — Diallyl Phthalate per MIL-M-14, Type SDG-F.

Contacts

Pin contact — copper alloy and beryllium copper alloy make up the complete construction;

Socket contact — copper alloy.

Body Shells

Pin body shell — stainless steel, Types 304, Condition A per QQ-S-76;

Socket body shell — aluminum alloy per QQ-A-591, A-380 alloy.

Hardware — Corrosion resistant stainless steel.

Finishes

Contacts — Standard finish is 0.000050 [0.00127] gold over copper flash per MIL-G-45204, Type II.

Body Shells

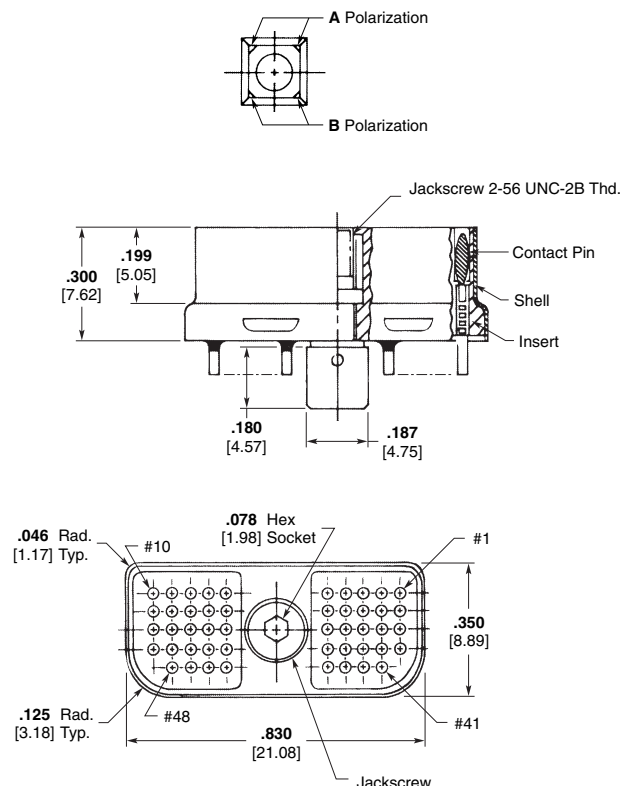
Pin body shell — passivated per MIL-F-14072 (E-300);

Socket body shell — electroless nickel per AMS 204, Class 3, except thickness is 0.001/0.0015 [0.025/0.038].

Hardware — Passivated per QQ-P-35.

Note: Insulators are molded into their metal shells — No bonded joint is used. Standard material used unless otherwise specified.

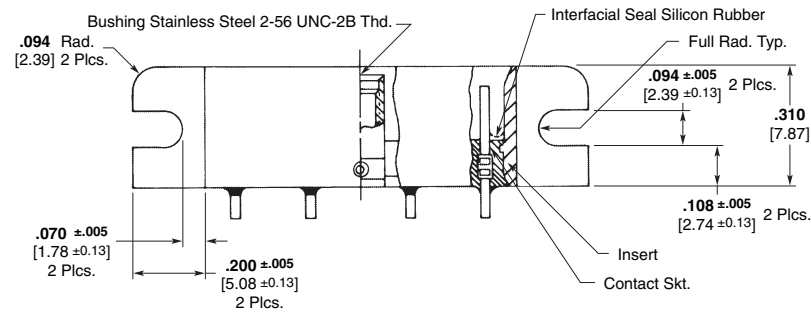
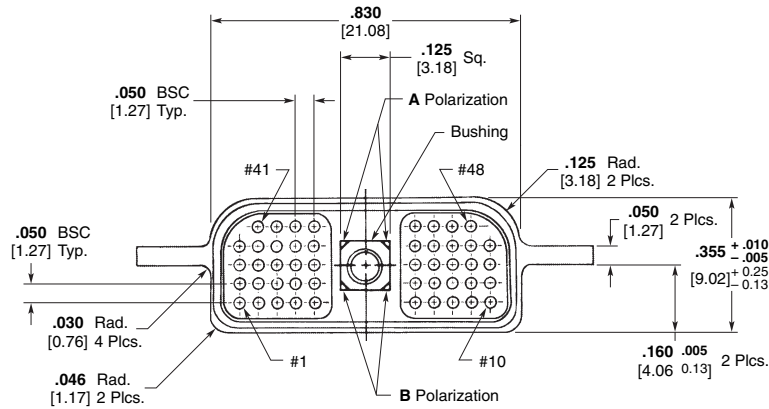
Plug (Pin Side) Shell Type M1



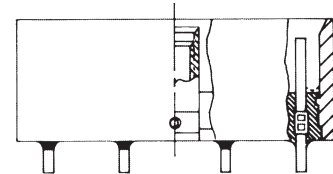
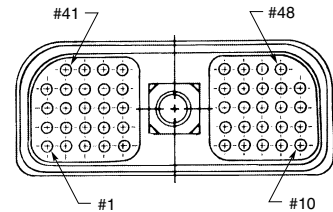
MICRODOT JACKMATE MCJM Series Metal Shell Center Jackscrew Connectors (Continued)

Receptacle (Socket Side)

Shell Type M1



Shell Type M2

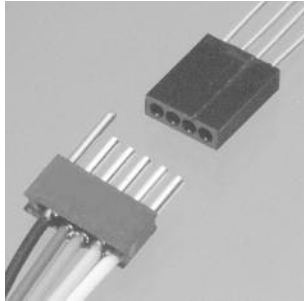


How To Specify

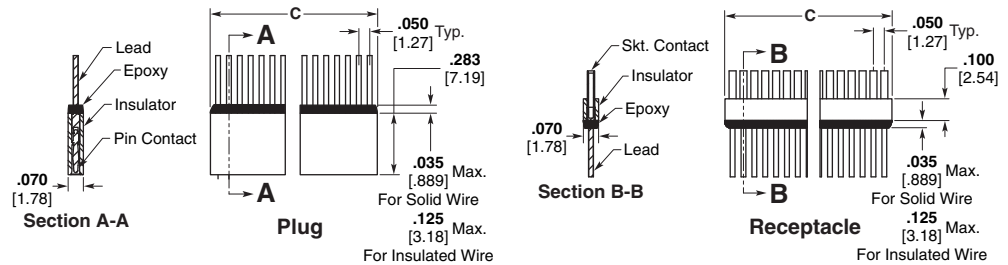
JACKMATE Connector Series MCJ M1 A — 48 P		Lead Length in Inches (min.) 4 L 4 — 0.5													
Shell Material M1 Metal Shell (Standard) M2 Metal Shell (Special receptacles only)		Insulation Color or Finish <table border="0"> <tr> <td>1 All white wire</td> <td>4 Gold plated</td> <td>7 Color coded per MIL-STD-681, System 1</td> </tr> <tr> <td>2 All yellow wire</td> <td>5 Tin dipped gold plated</td> <td>8 Special color code</td> </tr> <tr> <td>3 All gray wire</td> <td>6 Bare (unfinished)</td> <td>9 Ten solid color repeating (starts with black)</td> </tr> </table>		1 All white wire	4 Gold plated	7 Color coded per MIL-STD-681, System 1	2 All yellow wire	5 Tin dipped gold plated	8 Special color code	3 All gray wire	6 Bare (unfinished)	9 Ten solid color repeating (starts with black)			
1 All white wire	4 Gold plated	7 Color coded per MIL-STD-681, System 1													
2 All yellow wire	5 Tin dipped gold plated	8 Special color code													
3 All gray wire	6 Bare (unfinished)	9 Ten solid color repeating (starts with black)													
Polarizing Position A, B		Wire Type <table border="0"> <tr> <td>*A Type E, 7 strand</td> <td>*D Type ET, 19 strand</td> <td>G 19 strand per MIL-C-22759/11</td> </tr> <tr> <td>*B Type ET, 7 strand</td> <td>F 7 strand per MIL-C-22759/11</td> <td>26 AWG, 24 AWG</td> </tr> <tr> <td>*C Type E, 19 strand</td> <td>(#28 AWG only)</td> <td>L Copper, solid</td> </tr> <tr> <td colspan="2">*Per MIL-W-16878</td> <td>Q Stranded per MIL-W-22759/33</td> </tr> </table>		*A Type E, 7 strand	*D Type ET, 19 strand	G 19 strand per MIL-C-22759/11	*B Type ET, 7 strand	F 7 strand per MIL-C-22759/11	26 AWG, 24 AWG	*C Type E, 19 strand	(#28 AWG only)	L Copper, solid	*Per MIL-W-16878		Q Stranded per MIL-W-22759/33
*A Type E, 7 strand	*D Type ET, 19 strand	G 19 strand per MIL-C-22759/11													
*B Type ET, 7 strand	F 7 strand per MIL-C-22759/11	26 AWG, 24 AWG													
*C Type E, 19 strand	(#28 AWG only)	L Copper, solid													
*Per MIL-W-16878		Q Stranded per MIL-W-22759/33													
Layout (Positions) 48		Wire Size 4—24 AWG 5—25 AWG 6—26 AWG 8—28 AWG 0—30 AWG													
Contact Type P Pin S Socket															

MICRODOT MCS Series Strip Connectors

Strip Connectors



MCS Plastic Strip



Part No. By Size	C Max.
MCSAR*-1**	.070 [1.78]
MCSAR*-2**	.120 [3.05]
MCSAR*-3**	.170 [4.32]
MCSAR*-4**	.220 [5.59]
MCSAR*-5**	.270 [6.86]
MCSAR*-6**	.320 [8.13]
MCSAR*-7**	.420 [10.67]
MCSAR*-8**	.420 [10.67]
MCSAR*-9**	.470 [11.94]
MCSAR*-10**	.520 [13.21]
MCSAR*-11**	.570 [14.48]
MCSAR*-12**	.620 [15.75]
MCSAR*-13**	.670 [17.02]
MCSAR*-14**	.720 [18.29]
MCSAR*-15**	.770 [19.56]
MCSAR*-16**	.820 [20.83]
MCSAR*-17**	.870 [22.10]
MCSAR*-18**	.920 [23.37]
MCSAR*-19**	.970 [24.64]
MCSAR*-20**	1.020 [25.91]
MCSAR*-21**	1.070 [27.18]
MCSAR*-22**	1.120 [28.45]
MCSAR*-23**	1.170 [29.72]
MCSAR*-24**	1.220 [30.99]
MCSAR*-25**	1.270 [32.26]
MCSAR*-26**	1.320 [33.53]
MCSAR*-27**	1.370 [34.80]
MCSAR*-28**	1.420 [36.07]
MCSAR*-29**	1.470 [37.34]
MCSAR*-30**	1.520 [38.61]

Part No. By Size	C Max.
MCSAR*-31**	1.570 [39.88]
MCSAR*-32**	1.620 [41.15]
MCSAR*-33**	1.670 [42.42]
MCSAR*-34**	1.720 [43.69]
MCSAR*-35**	1.770 [44.96]
MCSAR*-36**	1.820 [46.23]
MCSAR*-37**	1.870 [47.50]
MCSAR*-38**	1.920 [48.77]
MCSAR*-39**	1.970 [50.04]
MCSAR*-40**	2.020 [51.31]
MCSAR*-41**	2.070 [52.58]
MCSAR*-42**	2.120 [53.85]
MCSAR*-43**	2.170 [55.12]
MCSAR*-44**	2.220 [56.39]
MCSAR*-45**	2.270 [57.66]
MCSAR*-46**	2.320 [58.93]
MCSAR*-47**	2.370 [60.20]
MCSAR*-48**	2.420 [61.47]
MCSAR*-49**	2.470 [62.74]
MCSAR*-50**	2.520 [64.01]
MCSAR*-51**	2.570 [65.28]
MCSAR*-52**	2.620 [66.55]
MCSAR*-53**	2.670 [67.82]
MCSAR*-54**	2.720 [69.09]
MCSAR*-55**	2.770 [70.36]
MCSAR*-56**	2.820 [71.63]
MCSAR*-57**	2.870 [72.90]
MCSAR*-58**	2.920 [74.17]
MCSAR*-59**	2.970 [75.44]
MCSAR*-60**	3.020 [76.71]

Part No. By Size	C Max.
MCSAR*-61**	3.070 [77.98]
MCSAR*-62**	3.120 [79.25]
MCSAR*-63**	3.170 [80.52]
MCSAR*-64**	3.220 [81.79]
MCSAR*-65**	3.270 [83.06]
MCSAR*-66**	3.320 [84.33]
MCSAR*-67**	3.370 [85.60]
MCSAR*-68**	3.420 [86.87]
MCSAR*-69**	3.470 [88.14]
MCSAR*-70**	3.520 [89.41]
MCSAR*-71**	3.570 [90.68]
MCSAR*-72**	3.620 [91.95]
MCSAR*-73**	3.670 [93.22]
MCSAR*-74**	3.720 [94.49]
MCSAR*-75**	3.770 [95.76]
MCSAR*-76**	3.820 [97.03]
MCSAR*-77**	3.870 [98.30]
MCSAR*-78**	3.920 [99.57]
MCSAR*-79**	3.970 [100.84]
MCSAR*-80**	4.020 [102.11]
MCSAR*-81**	4.070 [103.38]
MCSAR*-82**	4.120 [104.65]
MCSAR*-83**	4.170 [105.92]
MCSAR*-84**	4.220 [107.19]
MCSAR*-85**	4.270 [108.46]
MCSAR*-86**	4.320 [109.73]
MCSAR*-87**	4.370 [111.00]
MCSAR*-88**	4.420 [112.27]
MCSAR*-89**	4.470 [113.54]
MCSAR*-90**	4.520 [114.81]

Part No. By Size	C Max.
MCSAR*-91**	4.570 [116.08]
MCSAR*-92**	4.620 [117.35]
MCSAR*-93**	4.670 [118.62]
MCSAR*-94**	4.720 [119.89]
MCSAR*-95**	4.770 [121.16]
MCSAR*-96**	4.820 [122.43]
MCSAR*-97**	4.870 [123.70]
MCSAR*-98**	4.920 [124.97]
MCSAR*-99**	4.970 [126.24]
MCSAR*-100**	5.020 [127.51]
MCSAR*-101**	5.070 [128.78]
MCSAR*-102**	5.120 [130.05]
MCSAR*-103**	5.170 [131.32]
MCSAR*-104**	5.220 [132.59]
MCSAR*-105**	5.270 [133.86]
MCSAR*-106**	5.320 [135.13]
MCSAR*-107**	5.370 [136.40]
MCSAR*-108**	5.420 [137.67]
MCSAR*-109**	5.470 [138.94]
MCSAR*-110**	5.520 [140.21]
MCSAR*-111**	5.570 [141.48]
MCSAR*-112**	5.620 [142.75]
MCSAR*-113**	5.670 [144.02]
MCSAR*-114**	5.720 [145.29]
MCSAR*-115**	5.770 [146.56]
MCSAR*-116**	5.820 [147.83]
MCSAR*-117**	5.870 [149.10]
MCSAR*-118**	5.920 [150.37]
MCSAR*-119**	5.970 [151.64]
MCSAR*-120**	6.020 [152.91]

How To Specify

Connector Series: MCS AR 2 — 26 P 6 A 1 — 18.0

Insulator Type and Material: AR — Polyphenylene Sulfide per MIL-M-24519, or ASTM D4067, or Liquid Crystal Polymer per ASTM D5138

Contact Locations: 1 — Contact in every cavity, 2 — Contact in every other cavity 1, 3, 5..., 3 — Contact in every cavity except guide pin cavity in each end cavity, 4 — Contact in every other cavity 2, 4, 6... and guide pin in each end cavity, X — Other than above

Standard Polarization: Guide pins are in socket connectors. Blank cavities are in pin connectors.

Number of Cavities (120 Max.):

Contact Type: P — Pin S — Socket

Lead Length in Inches (min.):

Insulation Color or Finish: 1 — All white wire, 2 — All yellow wire, 3 — All gray wire, 4 — Gold plated, 5 — Tinned, 6 — Bare (unfinished), 7 — Color coded per MIL-STD-681, System 1, 8 — Special color code, 9 — Ten solid color repeating (starts with black)

Wire Type: *A — Type E, 7 strand, *B — Type ET, 7 strand, *C — Type E, 19 strand, *D — Type ET, 19 strand, F — 7 strand per MIL-22759/11 (#28 AWG only), G — 19 strand per MIL-22759/11 26 AWG, 24 AWG, M — Copper, solid, Q — Stranded per MIL-W-22759/33

*Per MIL-W-16878

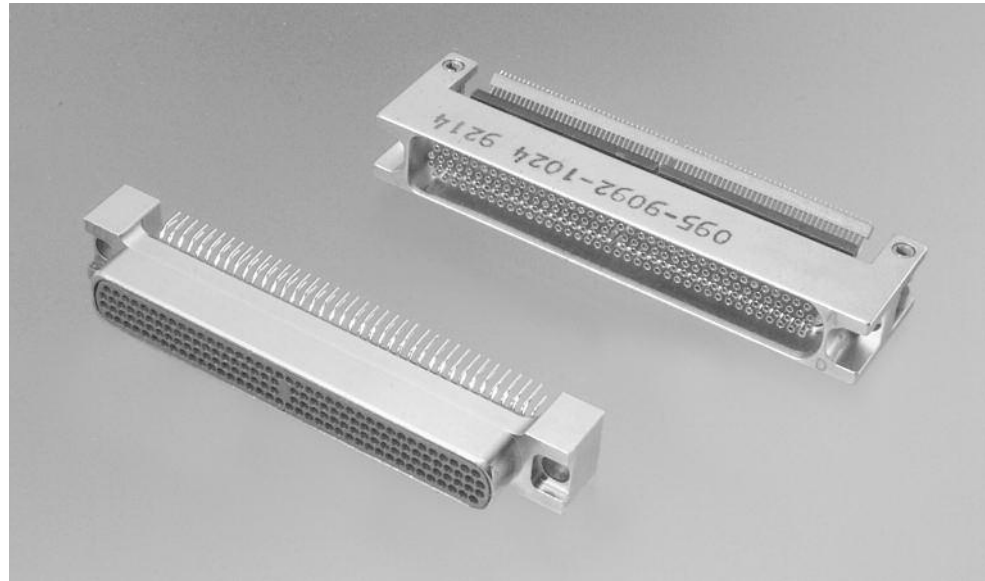
Wire Size: 4—24 AWG 5—25 AWG 6—26 AWG 8—28 AWG 0—30 AWG

MICRODOT High Density Standard Module (HDSM) Connectors

Features

- Designed for surface mounting on both daughter board and mother board for increased circuit density
- Basic design offers 38, 78, 120, 152, 200, 304, and 400 contact designs
- High reliability twist pin and socket per MIL-DTL-83513 and MIL-DTL-55302
- Connector permits lateral movement of daughter board to accommodate clamping of the heatsink
- Plated through-hole mounting available
- Available with flying leads
- Extender card option available
- Typical mating force for 304 contacts is 38 pounds
- Designed to withstand vapor phase soldering
- Two rotatable (six position) polarizing keys are provided accommodating 36 possible combinations
- Jackscrew hardware available; consult TE Connectivity
- Different modular inserts may be specified to include coax (Pixi/Con), fiber optic or other special contacts
- Inserts may be partially or fully loaded and installed in the connector shell in various configurations

Note: HDSM Connectors may require additional hardware for Rack and Panel Mount Systems



The MICRODOT HDSM connector is designed for 4 row .050 [1.27] pitch density with a special low force twist pin that meets all requirements of MIL-DTL-55302 and MIL-DTL-83513. This high density connector allows the use of construction to double the packaging density with surface mount capability.

Performance Data Summary

Electrical

Contacts — Pin 24 AWG twist pin, Socket #24 AWG, Wire range 24 AWG to 32 AWG solid and stranded.

Contact Resistance (voltage drop) — 25 millivolts max. at 3 amps, 25° ± 3° C.

Current Rating — 3 amps max. per contact

Dielectric Withstanding Voltage — Test in accordance with EIA-364-20, Method a, Test Condition IV. Volts RMS 60Hz at room ambient: 600V for Solder Pots at Sea Level. 150V for Solder Pots at 70,000 ft. [21,336m]. 500V for Wire Terminations at Sea Level. 200V for Wire Terminations at 70,000 ft.

Insulation Resistance — 5,000 megohms min. at room ambient.

Magnetic Permeability — 2 mμ max.

Mechanical

Contact Spacing — .050 [1.27] centers

Contact Engagement & Separation — 5.0 oz max. [1.39N] (eng.) 0.5 oz. min. [.14N] 3.5 oz. typ. [.97N] (sep.) force.

Materials and Finishes

Contacts — Copper alloy plated with .000050 [0.00127] gold over copper flash per MIL-G-45204, Type II.

Metal Shell —

Insulator — Liquid Crystal Polymer (LCP) per ASTM D5138 or Polyphenylene Sulfide per MIL-M-24519 or ASTM D4067

Body Shell — Aluminum alloy plated Nickel, electroless per MIL-C-26074.

Environmental

Temperature Range — -67°F to 257°F [-55° C to +125° C].

Vibration — No discontinuity in excess of 1 μ second when tested in accordance with EIA-364-28, test condition III.

Insulator Retention — Inserts will withstand a 50 lb. per square inch load in either direction.

Shock — No discontinuity in excess of 1 μ second when tested in accordance with EIA-364-27, test condition A.

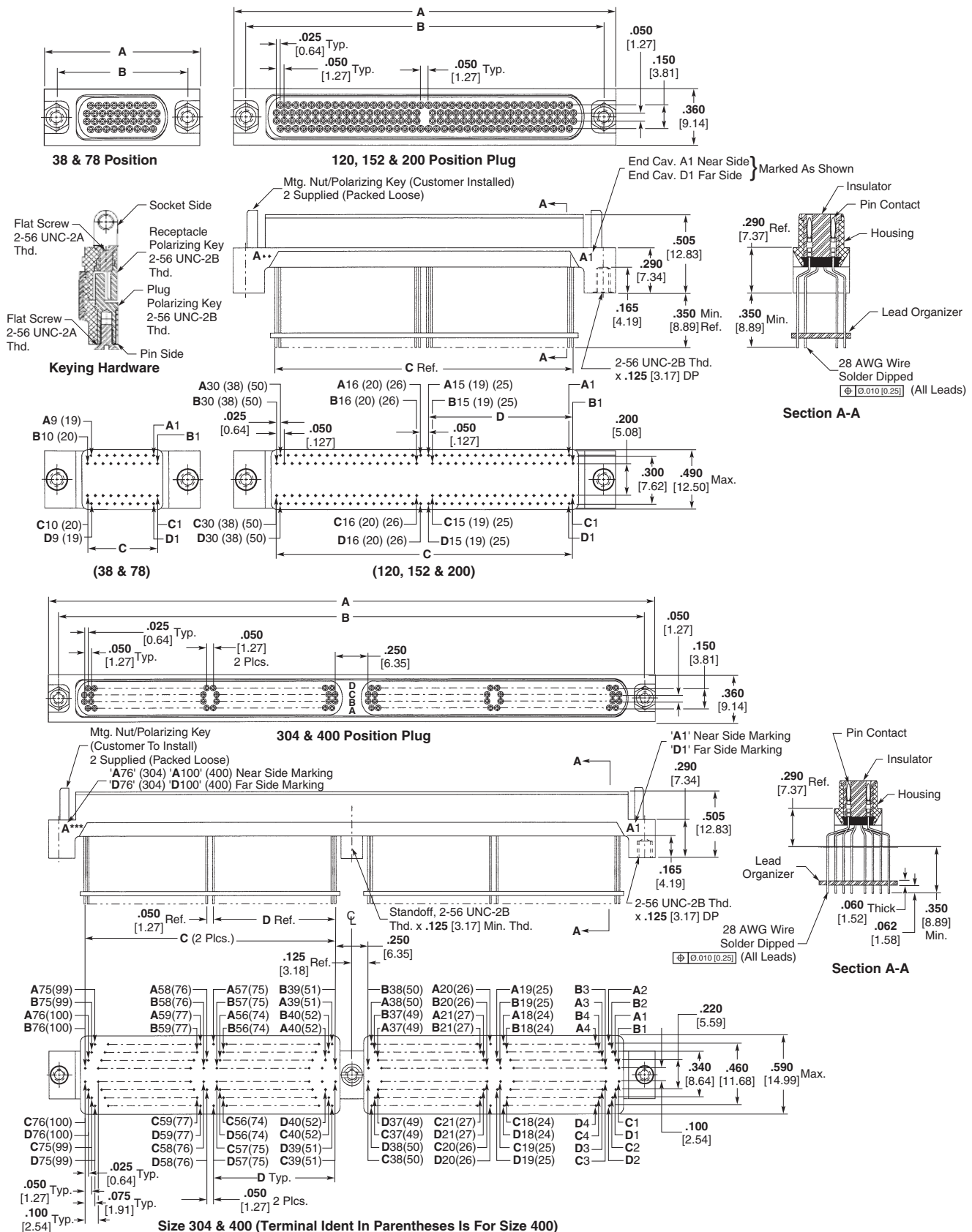
Durability — No mechanical or electrical defects detrimental to the function of the connectors after 500 cycles of mating and unmating. (Caution: Mating force increases during durability cycling may be noted).

Humidity — After exposure to humidity as specified by EIA-364-31, Method IV, Test Condition B, IR shall be 1 megohm minimum following step 7a of EIA-364-31 section 4.3.6.1 and 1000 megohms minimum after 24 hours of conditioning per EIA-364-31.

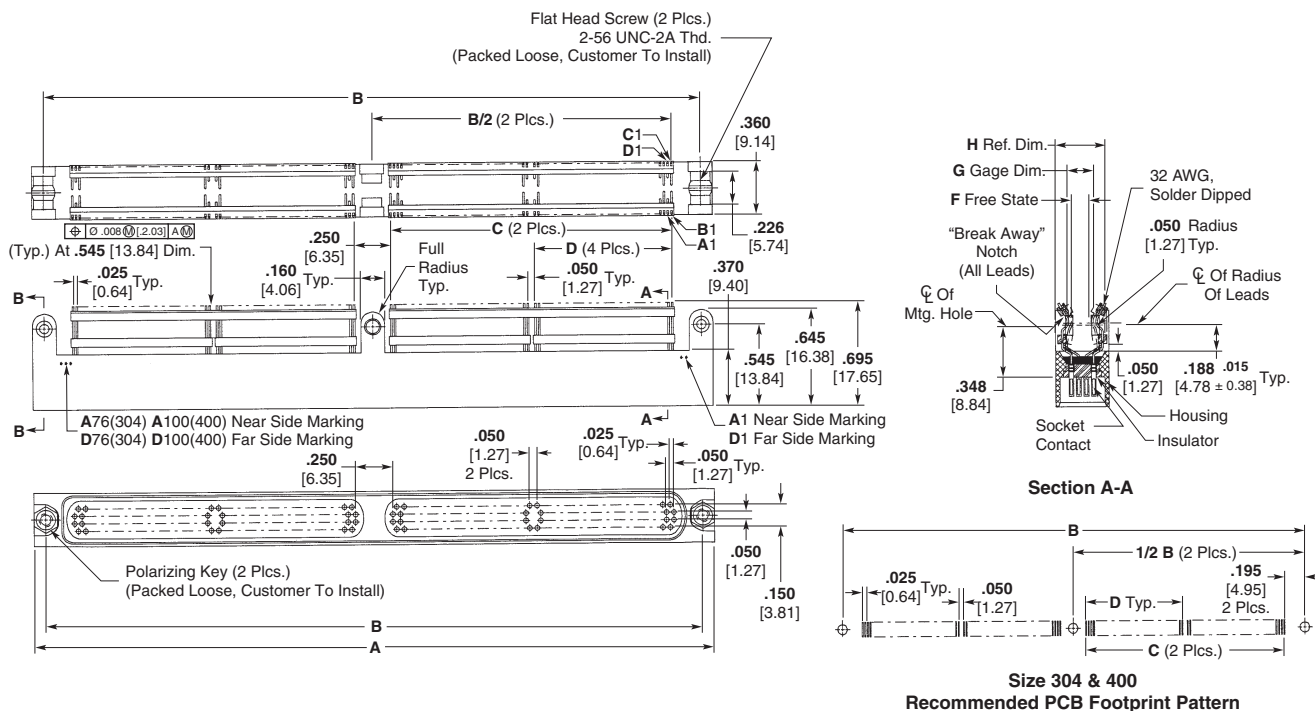
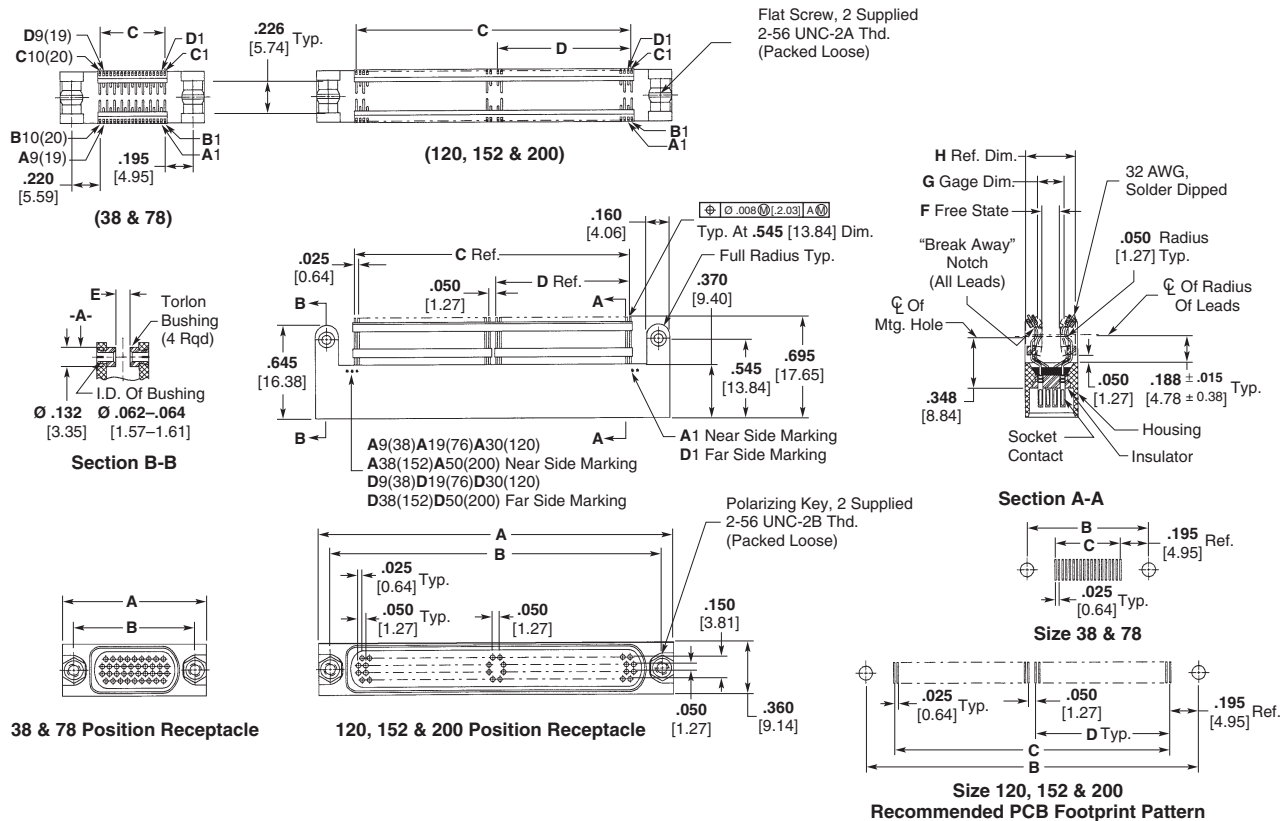
Salt Spray — Connectors shall meet the performance requirements of contact resistance, mating and unmating forces, and contact retention after being subjected to the 48 hour 5% solution salt spray test per EIA-364-26, Condition B.

Crimp Termination Tensile Strength — Unassembled contacts with crimped stranded wire terminations will not pull out of contacts when the following axial loads are applied: 24 AWG, 5 lbs., 26 AWG, 4 lbs., 28 AWG, 3 lbs.

MICRODOT High Density Standard Module (HDSM) Connectors (Continued)



MICRODOT High Density Standard Module (HDSM) Connectors (Continued)



MICRODOT High Density Standard Module (HDSM) Connectors (Continued)

No. of Cavities	A Dim.	B Dim.	C Dim.	D Dim.
Single Bay				
38	1.000 25.40	.840 21.34	.450 11.43	—
78	1.500 38.10	1.340 34.04	.950 24.13	—
120	2.050 52.07	1.890 48.01	1.500 38.10	.725 18.42
152	2.450 62.23	2.290 58.17	1.900 48.26	.925 23.50
200	3.050 77.47	2.890 73.41	2.500 63.50	1.225 31.12
Double Bay				
304	4.600 116.84	4.440 112.78	1.900 48.26	.925 23.50
400	5.800 147.32	5.640 143.26	2.500 63.50	1.225 31.12

How To Specify

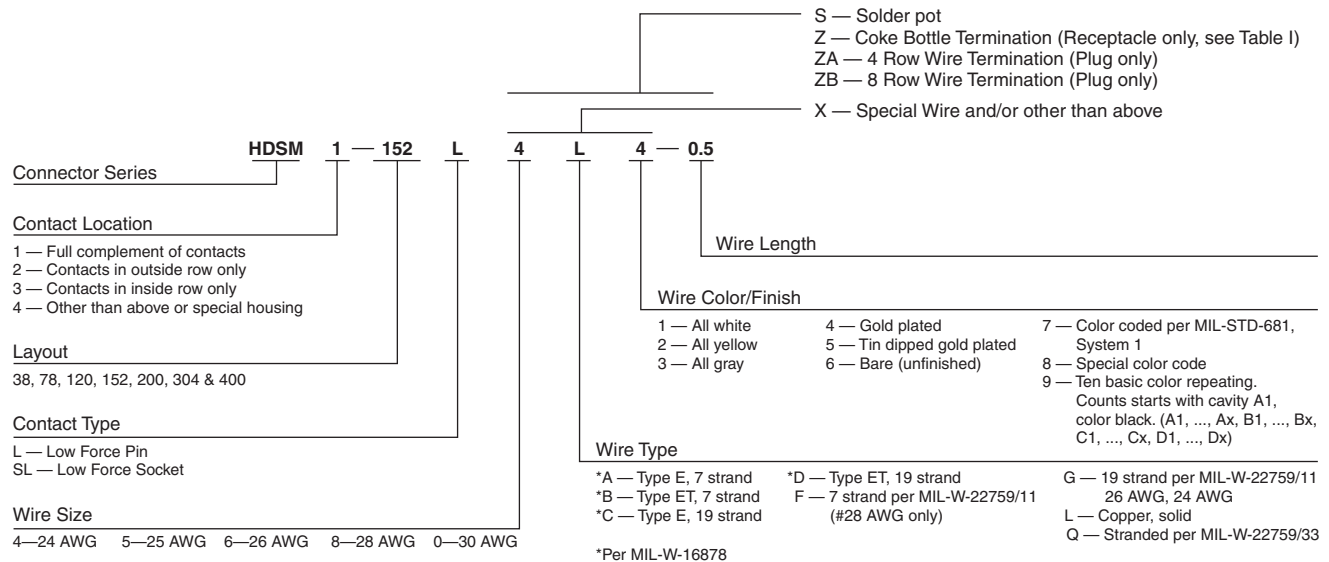


Table I

Dash No.	Gap Between Bushing "E"	F Dim.	G Dim.	H Dim. (Ref.)
1	.100 2.54	.120 3.05	.180 4.57	.330 8.38
2	.093 2.36	.060 1.52	.150 3.81	.330 8.38
3	.118 2.99	.235 5.97	.260 6.60	.483 12.27
4	.145 3.68	.120 3.05	.180 4.57	.330 8.38