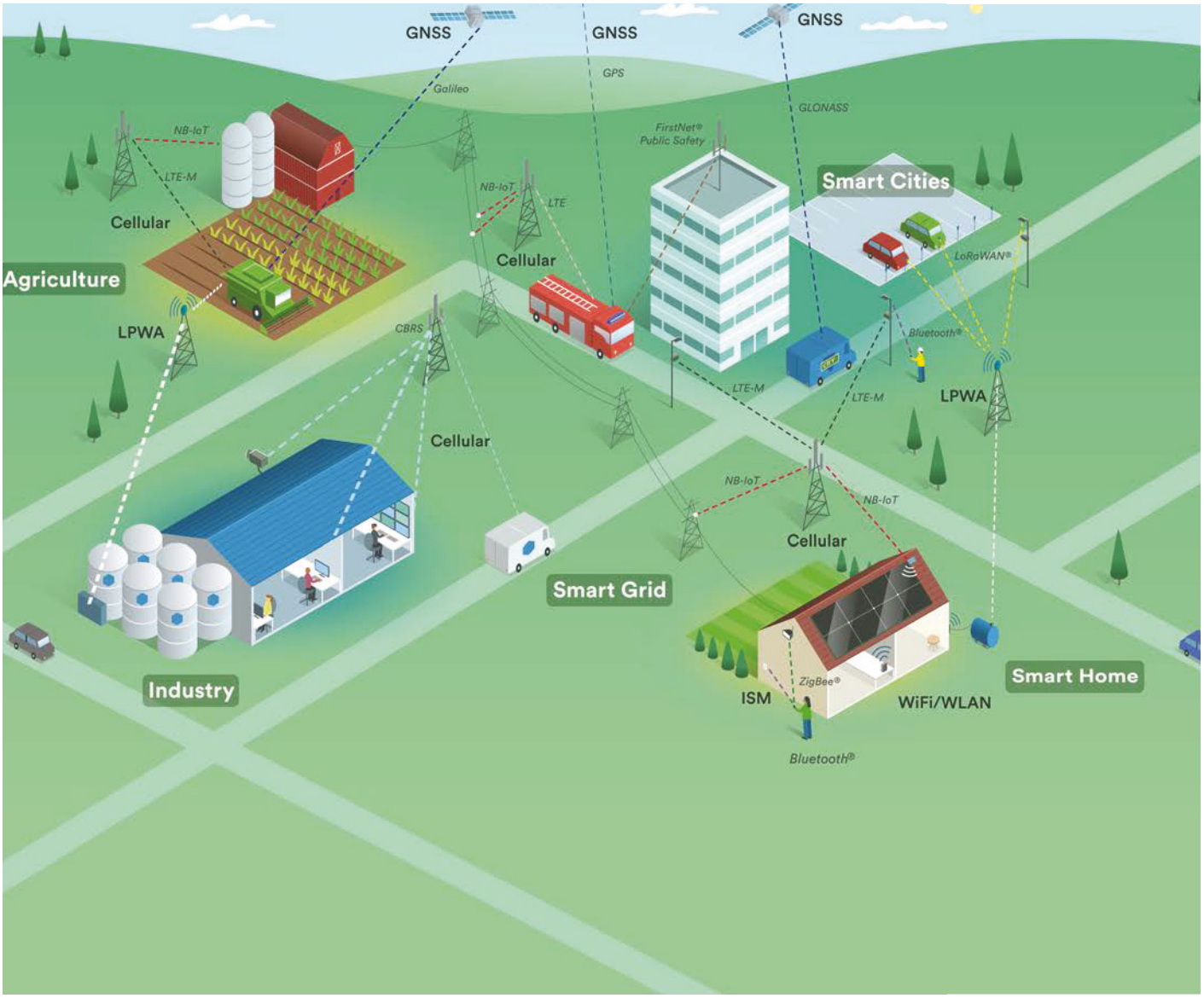
Linx TECHNOLOGIES
is now part of
TE connectivity



RF COAXIAL CONNECTORS, ADAPTERS AND LIGHTNING ARRESTERS

Linx strives to make every engineer a hero in record timeTM by minimizing the risk, delays and technical challenges for design engineers to implement wireless functionality and connectivity to the Internet. Unlike other module producers, every aspect of our product and design experience is specifically crafted to achieve Wireless Made Simple®.

ABOUT LINX TECHNOLOGIES

Linx Technologies strives to Make Every Engineer a Hero in Record Time™ by minimizing the risks, delays, and technical challenges for design engineers to make products wireless and connect them to the Internetof Things (IoT). Linx manufactures wireless components including antennas, RF connectors and cables, RFmodules, and remote controls. Linx relentlessly focuses on customer success. Every aspect of the LinxTechnologies business, from products, documentation, support, and design experience, is specifically craftedto achieve Wireless Made Simple®.

Support and Services

In addition to antenna products, Linx offers design support and services:

- Complimentary design reviews
- Complimentary antenna-matching circuit design
- Full-custom and semi-custom antenna and cable assembly design and documentation

Brand Promise

your design, we relentlessly focus on ensuring your successful product launch.

How to Purchase

Linx sells directly and through a global network of distributors, catalog houses and representatives. See the full list of distributors at the end of this catalog or visit:

https://linxtechnologies.com/distributors and **https://linxtechnologies.com/reps**

Contact Information

Sales@linxtechnologies.com

US: (800) 736-6677

Global: +1 (541) 471-6256

www.linxtechnologies.com

Oregon Design Center

Linx Technologies

159 Ort Lane

Merlin, OR, US 97532

Pennsylvania Office

Linx Technologies

Suite 204

101 E. Lancaster Avenue

Wayne, PA, US 19087

Taiwan Design Center

Taoyuan City, Taiwan

Linx Oregon Design Center

Linx Taiwan Design Center

Catalog Organization

Connector product listings are grouped by family as defined below. Within each grouping, connectors are listed by termination type, part number and characteristics, for ease of product selection. An asterisk (*) may be used in a part number to denote multiple connector plating options

Connector Families

SMA (SubMiniature, Type A)

SMA connectors provide a 1/4”-36UNS-2 threaded connection meeting MIL-STD-348:

- SMA plug (male pin) and SMA jack (female socket) threaded connection
- Nickel or gold plated brass construction

RP-SMA (RPS, Reverse-Polarity SubMiniature, Type A)

RP-SMA (reverse polarity) SMA connectors provide a 1/4”-36UNS-2 threaded connection meeting MIL-STD-348. For FCC Part 15 compliant applications.

- RP-SMA plug (female socket) and RP-SMA jack (male pin) threaded connection
- Nickel or gold plated brass construction
- For FCC Part 15 compliant applications

SMB (SubMiniature, Type B)

SMB connectors provide a snap-on connection meeting MIL-STD-348.

- SMB plug (female socket) and SMB jack (male pin) snap-on connection
- Gold plated brass construction

SMP (SubMiniature, Push-on)

SMP connectors provide a snap-on connection meeting MIL-STD-348.

- SMP plug (male pin) and SMP jack (female socket) snap-on connection
- Gold plated brass construction

MCX (Miniature)

MCX connectors provide a snap-on connection meeting CECC 22220.

- MCX jack (female socket) and MCX plug (male pin) snap-on connection
- Gold plated brass construction

MMCX (Micro-Miniature)

MMCX connectors provide a snap-on connection meeting BS EN 122340.

- MMCX jack (female socket) and MMCX plug (male pin) snap-on connection
- Gold plated brass construction

MHF1®/U.FL™/UMCC/AMC® (Ultraminiature, U.FL-Type)

U.FL-type connectors provide a snap-on connection.

- U.FL-type jack (male pin) snap-on connection
- Gold plated brass construction

Connector Families

MHF4 (Micro)

MHF4 connectors provide a snap-on connection.

- MHF4 jack (male pin) snap-on connection
- Gold plated brass construction

N

N connectors provide a 5/8”-24UNEF threaded connection meeting MIL-STD-348

- N plug (male pin) and N jack (female socket) threaded connection
- White bronze plated brass construction

Adapters

Linx adapters provide connection solutions for the interface types described above.

Lightning Arresters

Linx lightning arresters offer protection from overload in electronic circuits by diverting excessive current generated by thunderstorms directly to ground.

- Grounding lug provided for attachement to 18 AWG or larger stranded wire
- Gas discharge DC pass-through type arrestors last 5 years of service before needing replacement

Connector Families

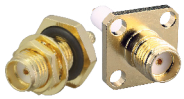
Connectors are offered in nickel or gold plated brass for most uses. Center contacts are gold plated brassfor male pins, and female sockets are gold plated beryllium copper to ensure the longevity of the connector.Linx N series connectors are brass with white bronze plating for superior corrosion resistance and reduced distortion caused by passive intermodulation (PIM).

Mounting Type

PCB Mount

Connector mounts directly to PCB using solder. Generally mounted on the surface or edge of the board, or using through-holes in the board. Surface mount connectors designed for mounting to a printed circuit board, (PCB) are designed for reflow solder mounting directly to a PCB for high-volume applications using a standard reflow profile. See Technical Reference section for reflow solder diagram.

Panel Mount



Connector mounts through an enclosure wall. Connections to the printed circuit board are made with solder post or cabled connection. Panel Mount connectors are provided with a washer and hex nut for installation in an enclosure. For sealed installation an O-ring is supplied which seats in a fitted groove.

Free Hanging

Connector attaches to coaxial cable with a solder or crimp connection. Connectors that attach to coaxial cable provide all parts necessary for cable installation including a center contact, hex crimp ferrule and heat shrink tubing.

Mounting Type

Figure 1 shows the connector (plug) side and end views. Dimensions are provided for scale.

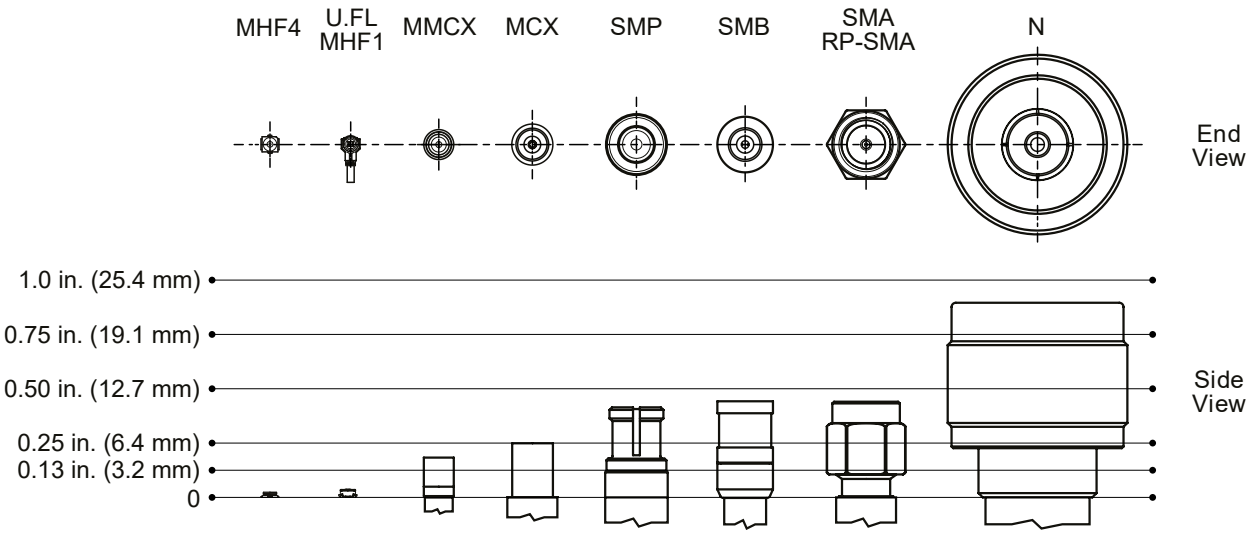


Figure 1. Relative Connector Sizes

CONTENTS

CONTENTS

CONTENTS

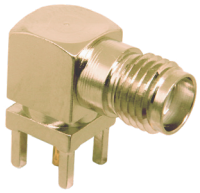
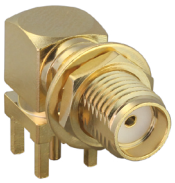
CONTENTS

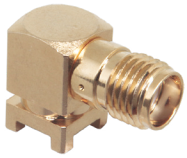
SMA CONNECTORS

SMA connectors provide a 1/4”-36UNS-2 threaded connection meeting MIL-STD-348.

• SMA plug (male pin) and SMA jack (female socket) threaded connection

PCB Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONSMA001***	Jack SMA connector • Through-hole • Female socket • Leg length 3.8 mm	**Frequency Range** 0 to 12.4GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA001-C-G**	Jack SMA connector • Through-hole • Female socket • Circular base • Leg length 3.7 mm	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA002***	Jack SMA connector • Through-hole • Female socket • Leg length 3.9 mm • Right angle	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA002-L***	Extended jack SMA connector • Through-hole • Female socket • Leg length 3.9 mm • Right angle • 1/4”-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA008***	Extended jack SMA connector • Through-hole • Female socket • 1/4”-36UNS hex nut • Washer • Leg length 3.8 mm	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA022-G**	Jack SMA connector • Through-hole edge-mount • Female socket	**Frequency Range** 0 to 26.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

Surface Mount	Overview	Electrical Data	Mechanical Data
 **CONSMA001-SMD***	Jack SMA connector • Surface-mount • Female socket	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA002-SMD***	Jack SMA connector • Surface-mount • Female socket • Right angle	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Edge Mount			
 **CONSMA003.031***	Jack SMA connector • Female socket • Edge-mount for 0.031 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONSMA003.031-L***	Extended jack SMA connector • Female socket • Edge-mount for 0.031 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONSMA003.042-L-G**	Extended jack SMA connector • Female socket • Edge-mount for 0.042 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss** 0.23 dBi	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.042 in.
 **CONSMA003.062***	Jack SMA connector • Female socket • Edge-mount for 0.062 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.
 **CONSMA003.062-L***	Extended jack SMA connector • Female socket • Edge-mount for 0.062 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.

Edge Mount	Overview	Electrical Data	Mechanical Data
 **CONSMA006.031**	Extended jack SMA connector • Multi-mount • Female socket • Edge-mount for 0.031 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONSMA006.062***	Extended jack SMA connector • Multi-mount • Female socket • Edge-mount for 0.062 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.
 **CONSMA013.031***	Plug SMA connector • Male pin • Edge-mount for 0.031 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONSMA013.062***	Plug SMA connector • Male pin • Edge-mount for 0.062 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.
 **CONSMA020.031-G**	Jack SMA connector • Female socket • Edge-mount for 0.031 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONSMA020.042-G**	Jack SMA connector • Female socket • Edge-mount for 0.042 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.1 **Insertion Loss** 0.23 dBi	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.042 in.
 **CONSMA020.062-G**	Jack SMA connector • Female socket • Edge-mount for 0.062 in. boards	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.

Edge Mount

Overview	Electrical Data	Mechanical Data
 **CONSMA021.062-G** Jack SMA connector • Female socket • Edge-mount for 0.062 in. boards	**Frequency Range** 0 to 26.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.
 **CONSMA022-G** Jack SMA connector • Female socket • Through-hole edge-mount	**Frequency Range** 0 to 26.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** Any
 **CONSMA023.031-G** Jack SMA connector • Female socket • Edge-mount for 0.031 in. boards	**Frequency Range** 0 to 26.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONSMA024-G** Jack SMA connector • Female socket • Board cutout edge-mount	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2 @ 6 GHz 1.4 @ 8.5 GHz **Insertion Loss** -0.42 dB Max. @ 6 GHz -0.62 dB Max. @ 8.5 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Phosphor Bronze **Mating Cycles** 500 min. **PCB Thickness** Any

Panel Mount

Cable Termination

	Electrical Data	Mechanical Data
 **CONSMA005** Jack SMA connector • Bulkhead mount • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA005-R178** Jack SMA connector • Bulkhead mount • Cable end crimp • RG-178, RG-196 • Female socket • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONSMA005-R58**	Jack SMA connector • Bulkhead mount • Cable end crimp • RG-58/58A/58C, RG-141A • Female socket • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA014**	Jack SMA connector • Bulkhead rear-mount • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • O-ring in groove • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA014-R178***	Jack SMA connector • Bulkhead rear-mount • Cable end crimp • RG-178, RG-196 • Female socket • O-ring in groove • 1/4"-36UNS hex nut • Washer • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA014-R58**	Jack SMA connector • Bulkhead rear-mount • Cable end crimp • RG-58/58A/58C, RG-141A • Female socket • O-ring in groove • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA015**	Jack SMA connector • Bulkhead mount • Cable end crimp • RG-174, RG-188A, RG-316, Female socket • O-ring in groove • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shr	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA015-R178***	Jack SMA connector • Bulkhead mount • Cable end crimp • RG-178, RG-196 • Female socket • O-ring in groove • 1/4"-36UNS hex nut • Washer • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

Solder Post	Overview	Electrical Data		Mechanical Data	
 **CONSMA016-15-G**	Jack SMA connector • 4-Hole flange mount • Female socket • 15 mm extended insulation	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 18 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Brass Gold PTFE Beryllium Copper 500 min. 12.7 mm x 12.7 mm (0.5 in x 0.5 in)
 **CONSMA018-4-G**	Jack SMA connector • 2-Hole flange mount • Female socket • 4 mm extended insulation	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 18 GHz 50 1.5 0.04√f dB, Max. f GHz	**BBody Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Brass Gold PTFE Beryllium Copper 500 min. 16.0 mm x 6.0 mm (0.6 in x 0.2 in)
 **CONSMA018-15-G**	Jack SMA connector • 2-Hole flange mount • Female socket • 15 mm extended insulation	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 18 GHz 50 1.5 0.04√f dB, Max. f GHz	**BBody Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Brass Gold PTFE Beryllium Copper 500 min. 16.0 mm x 6.0 mm (0.6 in x 0.2 in)
 **CONSMA019-G**	Jack SMA connector • 4-Hole flange mount • Female socket • Right angle • 15 mm extended insulation	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 18 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Brass Gold PTFE Beryllium Copper 500 min. 12.7 mm x 12.7 mm (0.5 in x 0.5 in)
Solder Socket					
 **CONSMA017**	Jack SMA connector • 2-Hole flange mount • Female socket	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 27 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Stainless Steel Passivated PTFE Beryllium Copper 500 min. 12.7 mm x 5.0 mm (0.5 in x 0.2 in)
 **CONSMA017-1**	Jack SMA connector • 2-Hole flange mount • Female socket • 2x Screws 0-80UNF-2B x 4.76 mm (0.19 in)	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 27 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Stainless Steel Passivated PTFE Beryllium Copper 500 min. 12.7 mm x 5.0 mm (0.5 in x 0.2 in)
 **CONSMA017-2**	Jack SMA connector • 2-Hole flange mount • Female socket • 2x Screws 0-80UNF-2B x 6.35 mm (0.25 in)	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 27 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Flange Size**	Stainless Steel Passivated PTFE Beryllium Copper 500 min. 12.7 mm x 5.0 mm (0.5 in x 0.2 in)

Free Hanging

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONSMA007***	Plug SMA connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA007-R178**	Plug SMA connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA007-R58**	Plug SMA connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58C, RG-141A • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA011***	Jack SMA connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA011-R178**	Jack SMA connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Female socket • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA011-R58**	Jack SMA connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58C, RG-141A • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMA012**	Plug SMA connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

Cable Termination	Overview	Electrical Data		Mechanical Data	
 **CONSMA012-R178**	Plug SMA connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.06√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Nickel PTFE Brass 500 min.
 **CONSMA012-R58**	Plug SMA connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58C, RG-141A • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.06√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Nickel PTFE Brass 500 min.

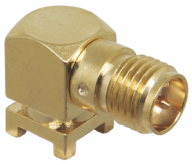
RP-SMA CONNECTORS (REVERSE POLARITY)

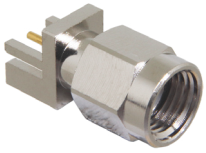
RP-SMA connectors provide a 1/4”-36UNS-2 threaded connection meeting MIL-STD-348

- RP-SMA plug (female socket) and RP-SMA jack (male pin) threaded connection
- FCC Part 15 compliant

PCB Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONSMA012-R58**	Jack RP-SMA connector • Through-hole • Male pin • Leg length 3.8 mm	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA002***	Jack RP-SMA connector • Through-hole • Male pin • Leg length 3.9 mm • Right angle	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA002-L***	Extended jack RP-SMA connector • Through-hole • Male pin • Leg length 3.9 mm • Right angle • 1/4”-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

Surface Mount	Overview	Electrical Data		Mechanical Data	
 **CONREVSMA001-SMD***	Jack RP-SMA connector • Surface-mount • Male pin	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Nickel Gold PTFE Beryllium Copper 500 min.
 **CONREVSMA002-SMD***	Jack RP-SMA connector • Surface-mount • Male pin • Right angle	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.06√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Nickel Gold PTFE Beryllium Copper 500 min.
Edge Mount					
 **CONREVSMA003.031**	Jack RP-SMA connector • Male pin • Edge-mount for 0.031 in boards	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 18 GHz 50 1.5 0.06√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Mating Cycles**	Brass Nickel PTFE Brass 500 min. 0.031 in.
 **CONREVSMA003.031-L**	Extended jack RP-SMA connector • Male pin • Edge-mount for 0.031 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Mating Cycles**	Brass Nickel PTFE Beryllium Copper 500 min. 0.031 in.
 **CONREVSMA003.062***	Jack RP-SMA connector • Male pin • Edge-mount for 0.062 in. boards	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 18 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Mating Cycles**	Brass Nickel Gold PTFE Brass 500 min. 0.062 in.
 **CONREVSMA003.062-L**	Extended jack RP-SMA connector • Male pin • Edge-mount for 0.062 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Mating Cycles**	Brass Nickel PTFE Beryllium Copper 500 min. 0.062 in.
 **CONREVSMA006.031**	Extended jack RP-SMA connector • Multi-mount • Male pin • Edge-mount for 0.031 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 12.4 GHz 50 1.5 0.04√f dB, Max. f GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Mating Cycles**	Brass Nickel PTFE Brass 500 min. 0.031 in.

Edge Mount	Overview	Electrical Data	Mechanical Data
 **CONREVSMA006.062***	Extended jack RP-SMA connector • Multi-mount • Male pin • Edge-mount for 0.062 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Mating Cycles** 0.062 in.
 **CONREVSMA006.062SQ**	Extended jack RP-SMA connector • Multi-mount • Male pin • Edge-mount for 0.062 in. boards • 1/4"-36UNS hex nut • Washer • Square flange	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Mating Cycles** 0.062 in
 **CONREVSMA013.031**	Plug RP-SMA connector • Female socket • Edge-mount for 0.031 in. boards	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Mating Cycles** 0.031 in.
 **CONREVSMA013.062**	Plug RP-SMA connector • Female socket • Edge-mount for 0.062 in. boards	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Mating Cycles** 0.062 in.
 **CONREVSMA024-G**	Jack RP-SMA connector • Male pin • Board cutout edge-mount	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2 @ 6 GHz **Insertion Loss** -0.45 dB Max. @ 6 GHz -0.65 dB Max. @ 8.5 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Mating Cycles** Any

Panel Mount

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONREVSMA005***	Jack RP-SMA connector • Bulkhead rear-mount • Cable end crimp • RG-174, 188A, 316 • Male pin • 1/4”-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONREVSMA005-R178**	Jack RP-SMA connector • Bulkhead rear-mount • Cable end crimp • RG-178, RG-196 • Male pin • 1/4”-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONREVSMA005-R58**	Jack RP-SMA connector • Bulkhead rear-mount • Cable end crimp • RG-58/58A/58C, RG-141A • Male pin • 1/4”-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONREVSMA014**	Jack RP-SMA connector • Bulkhead rear-mount • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • O-ring in groove • 1/4”-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA014-R178**	Jack RP-SMA connector • Bulkhead rear-mount • Cable end crimp • RG-178, RG-196 • Male pin • O-ring in groove • 1/4”-36UNS hex nut • Washer • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA014-R58**	Jack RP-SMA connector • Bulkhead rear-mount • Cable end crimp • RG-58/58A/58C, RG-141A • Male pin • O-ring in groove • 1/4”-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONREVSMA015**	Jack RP-SMA connector • Bulkhead mount • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • O-ring in groove • 1/4"-36UNS hex nut • Washer • Crimp ferrule	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA015-R178**	Jack RP-SMA connector • Bulkhead mount • Cable end crimp • RG-178, RG-196 • Male pin • O-ring in groove • 1/4"-36UNS hex nut • Washer • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Solder Post			
 **ONREVSMA004***	Jack RP-SMA connector • Bulkhead mount • Male pin • Solder pot	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
Free Hanging			
Cable Termination			
 **CONREVSMA007***	Plug RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA007-R178**	Plug RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Female socket • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA007-R58**	Plug RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58C, RG-141A • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

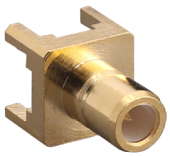
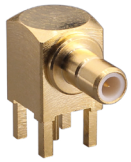
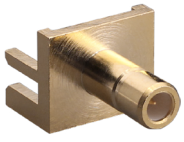
Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONREVSMA011**	Jack RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONREVSMA011-R178**	Jack RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA011-R58**	Jack RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58C, RG-141A • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.04√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONREVSMA012***	Plug RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA012-R178**	Plug RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Female socket • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONREVSMA012-R58**	Plug RP-SMA connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58C, RG-141A • Female socket • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12.4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.06√f dB, Max. f GHz	**Body Material** Brass **Body Finish*** Nickel **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

SMB CONNECTORS

SMB connectors provide a snap-on connection meeting MIL-STD-348

• SMB plug (female socket) or SMB jack (male pin) snap-on connection

PCB Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONSMB001-G**	Jack SMB Connector • Through-hole • Male pin • Leg length 3.9 mm	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.24 dB Max. @ 2.4 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONSMB001-1-G**	Jack SMB Connector • Through-hole • Male pin • Leg length 2.4 mm	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.23 dB Max. @ 2.4 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONSMB002-G**	Jack SMB Connector • Through-hole • Male pin • Leg length 3.9 mm • Right angle	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.24 dB Max. @ 2.4 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONSMB006-G**	Plug SMB Connector • Through-hole • Female socket • Leg length 3.9 mm	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.23 dB Max. @ 2.4 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Surface Mount			
 **CONSMB001-SMD-G**	Jack SMB Connector • Surface-mount • Male pin	**Frequency Range** 0 to 12 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.41 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
Edge Mount			
 **CONSMB003.062-G**	Jack SMB Connector • Edge-mount for 0.062 in. boards • Male pin	**Frequency Range** 0 to 6.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.6 **Insertion Loss** 0.36 dB Max. @ 2.4 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.

Free Hanging

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONSMB007-G**	Plug SMB Connector • Free-hanging (inline) • Cable end crimp • RG-174, 188, 188A, 316 • LMR-100, M17/119-RG174 • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2 **Insertion Loss** 0.41 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONSMB012-G**	Plug SMB Connector • Free-hanging (inline) • Cable end crimp • RG-174/U, 316 • Female socket • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 12 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.64 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

SMP CONNECTORS

SMP connectors provide a snap-on connection meeting MIL-STD-348

• SMP plug (male pin) or SMP jack (female socket) snap-on connection

PCB Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONSMP001-1**	Plug SMP Connector • Through-hole • Male pin • Leg length 2.54 mm	**Frequency Range** 0 to 20 GHz **Impedance**(Ohms) 50 **VSWR**(max) 600 MHz to 960 MHz 1.0 12 GHz to 18 GHz 1.3 **Insertion Loss** 600 MHz to 960 MHz 0.12 dB Max. 12 GHz to 18 GHz 1.53 dB max.	**Body Material** Stainless Steel **Body Finish*** Passivated **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 100 min.
 **CONSMP001-2-G**	Plug SMP Connector • Through-hole • Male pin • Leg length 3.56 mm	**Frequency Range** 0 to 40 GHz **Impedance**(Ohms) 50 **VSWR**(max) 600 MHz to 960 MHz 1.5 12 GHz to 18 GHz 1.4 **Insertion Loss** 600 MHz to 960 MHz 1.07 dB Max. 12 GHz to 18 GHz 1.22 dB max.	**Body Material** Beryllium Copper **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 100 min.
 **CONSMP001-G-T**	Plug SMP Connector • Through-hole • Male pin • Leg length 2.5 mm	**Frequency Range** 0 to 26.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 600 MHz to 960 MHz 1.0 12 GHz to 18 GHz 1.7 **Insertion Loss** 600 MHz to 960 MHz 0.02 dB Max. 12 GHz to 18 GHz 0.32 dB max.	**Body Material** Brassr **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 100 min.
Surface Mount			
 **CONSMP001-SMD-G=T**	Plug SMP Connector • Surface-mount • Male pin	**Frequency Range** 0 to 26.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 600 MHz to 960 MHz 1.1 12 GHz to 18 GHz 1.8 **Insertion Loss** 600 MHz to 960 MHz 0.02 dB Max. 12 GHz to 18 GHz 0.36 dB max.	**Body Material** Brass **Body Finish*** Gold **Dielectric** Liquid Crystal Polymer **Center Contact** Beryllium Copper **Mating Cycles** 100 min.
Edge Mount			
 **CONSMP024-G**	Plug SMP Connector • Board cutout edge-mount • Male pin	**Frequency Range** 0 to 20 GHz **Impedance**(Ohms) 50 **VSWR**(max) 600 MHz to 960 MHz 1.2 12 GHz to 18 GHz 1.4 **Insertion Loss** 600 MHz to 960 MHz 0.47 dB Max. 12 GHz to 18 GHz 1.81 dB max.	**Body Material** Beryllium Copper **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 100 min.

Free Hanging

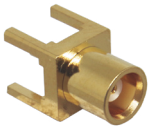
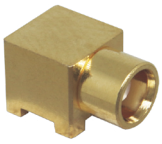
Cable Termination	Overview	Electrical Data		Mechanical Data	
 **CONSMP005-G**	Jack SMP Connector • Free-hanging (inline) • Cable end solder • 0.047 semi-rigid coaxial cable • Female socket • Right angle	**Frequency Range**	0 to 26.5 GHz	**Body Material**	Beryllium Copper
		Impedance(Ohms)	50	**Body Finish***	Gold
		VSWR(max)		**Dielectric**	PTFE
		600 MHz to 960 MHz 12 GHz to 18 GHz	1.9 2.7	**Center Contact**	Beryllium Copper
		Insertion Loss		**Mating Cycles**	100 min.
		600 MHz to 960 MHz 12 GHz to 18 GHz	0.62 dB Max. 1.29 dB max.		

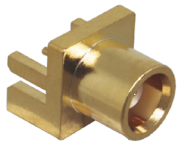
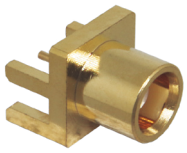
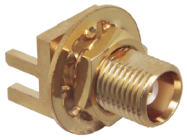
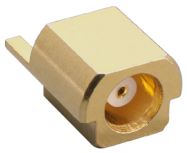
MCX CONNECTORS

MCX connectors provide a snap-on connection meeting CECC 22220.

• MCX jack (female socket) or MCX plug (male pin) snap-on connection

PCB Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONMCX001**	Jack MCX Connector • Through-hole • Female socket • Leg length 3.9 mm	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMCX002**	Jack MCX Connector • Through-hole • Female socket • Leg length 3.9 mm • Right angle	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Surface Mount			
 **CONMCX001-SMD**	Jack MCX Connector • Surface-mount • Female socket	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMCX002-SMD**	Jack MCX Connector • Surface-mount • Female socket • Right angle	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

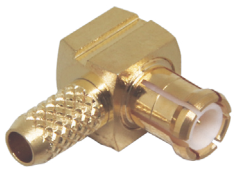
Edge Mount	Overview	Electrical Data	Mechanical Data
 **CONMCX003.031**	Jack MCX Connector • Female socket • Edge-mount for 0.031 in. boards	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONMCX003.031-L**	Extended jack MCX Connector • Female socket • Edge-mount for 0.031 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.031 in.
 **CONMCX003.062**	Jack MCX Connector • Female socket • Edge-mount for 0.062 in. boards	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.
 **CONMCX003.062-L**	Extended jack MCX Connector • Female socket • Edge-mount for 0.062 in. boards • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **PCB Thickness** 0.062 in.
 **CONMCX013**	Jack MCX Connector • Female socket • Board cutout edge-mount	**Frequency Range** 0 to 8.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2 @ 6 GHz 1.4 @ 8.5 GHz **Insertion Loss**(dB max) -0.52 dB Max. @ 6 GHz -0.77 dB Max. @ 8.5 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

Panel Mount

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONMCX005**	Jack MCX Connector • Bulkhead rear-mount • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • 1/4"-36UNS hex nut • Washer • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMCX005-R178**	Jack MCX Connector • Bulkhead rear-mount • Cable end crimp • RG-178, RG-196 • Female socket • 1/4"-36UNS hex nut • Washer • Heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Solder Post			
 **CONMCX004**	Jack MCX Connector • Bulkhead mount • Female socket • Solder pot • 1/4"-36UNS hex nut • Washer	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

Free Hanging

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONMCX007**	Plug MCX Connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONMCX007-R178**	Plug MCX Connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

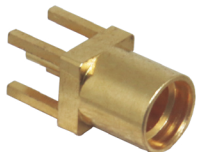
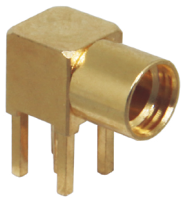
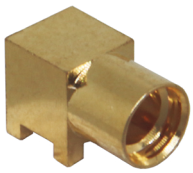
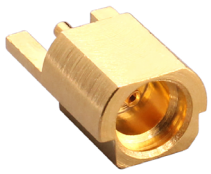
Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONMCX011**	Jack MCX Connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMCX011-R178**	Jack MCX Connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Female socket • Heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.1 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMCX012**	Plug MCX Connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONMCX012-R178**	Plug MCX Connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

MMCX CONNECTORS

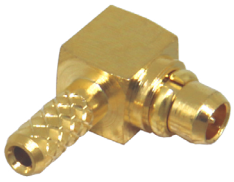
MMCX connectors provide a snap-on connection meeting BS EN 122340

• MMCX jack (female socket) or MMCX plug (male pin) snap-on connection

PCB Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONMMCX001**	Jack MMCX Connector • Through-hole • Female socket • Leg length 3.0 mm	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMMCX002**	Jack MMCX Connector • Through-hole • Female socket • Leg length 2.9 mm • Right angle	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss**(dB max) 0.3 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Surface Mount			
 **CONMMCX001-SMD**	Jack MMCX Connector • Surface-mount • Female socket	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMMCX002-SMD**	Jack MMCX Connector • Surface-mount • Female socket • Right angle	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss**(dB max) 0.3 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Edge Mount			
 **CONMMCX013**	Jack MMCX Connector • Female socket • Board cutout edge-mount	**Frequency Range** 0 to 8.5 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2 @ 6 GHz 1.2 @ 8.5 GHz **Insertion Loss**(dB max) -0.47 dB Max. @ 6 GHz -0.64 dB Max. @ 8.5 GHz	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.

Free Hanging

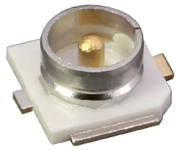
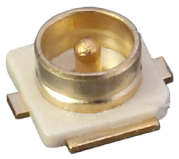
Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONMMCX007**	Plug MMCX Connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONMMCX007-R178**	Plug MMCX Connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMMCX011**	Jack MMCX Connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Female socket • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMMCX011-R178**	Jack MMCX Connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Female socket • Heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.2 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
 **CONMMCX012**	Plug MMCX Connector • Free-hanging (inline) • Cable end crimp • RG-174, RG-188A, RG-316 • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.3 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONMMCX012-R178**	Plug MMCX Connector • Free-hanging (inline) • Cable end crimp • RG-178, RG-196 • Male pin • Right angle • Crimp ferrule/heat shrink	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss**(dB max) 0.3 dB Max	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

MHF CONNECTORS MHF1/U.FL-TYPE/UMCC/AMC CONNECTORS

MHF1 connectors provide a snap-on connection.

• MHF1 jack (male pin) snap-on connection

PCB Mount

Surface Mount	Overview	Electrical Data		Mechanical Data	
 **CONMHF1-SMD-T**	Jack MHF1 Connector • Surface-mount • Male pin	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) @ 2.5 GHz @ 5 GHz **Insertion Loss** @ 2.5 GHz @ 5 GHz	0 to 6 GHz 50 1.1 2.0 0.10 dB Max. 0.81 dB max.	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Nickel Liquid Crystal Polymer Brass 30 min.
 **CONMHF1-SMD-G-T**	Jack MHF1 Connector • Surface-mount • Male pin	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) @ 2.5 GHz @ 5 GHz **Insertion Loss** @ 2.5 GHz @ 5 GHz	0 to 6 GHz 50 1.1 2.0 0.10 dB Max. 0.81 dB max.	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Gold Liquid Crystal Polymer Brass 30 min.
 **CONUFL001-SMD**	Jack MHF1 Connector • Surface-mount • Male pin	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 6 GHz 50 1.4 0.24 dB Max	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Gold Liquid Crystal Polymer Brass 30 min.

MHF4 CONNECTORS

MHF1 connectors provide a snap-on connection.

• MHF1 jack (male pin) snap-on connection

PCB Mount

Surface Mount	Overview	Electrical Data		Mechanical Data	
 **CONMHF4-SMD-G-T**	Jack MHF4 Connector • Surface-mount • Male pin	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) @ 2.5 GHz @ 5 GHz **Insertion Loss** @ 2.5 GHz @ 5 GHz	0 to 6 GHz 50 1.1 1.8 0.58 dB Max. 1.57 dB max.	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles**	Brass Gold Liquid Crystal Polymer Brass 30 min.

N CONNECTORS

N connectors provide a 5/8”-24UNEF threaded connection meeting MIL-STD-348.

• N plug (male pin) or N jack (female socket) threaded connection

Panel Mount

Through Hole	Overview	Electrical Data	Mechanical Data
 **CONN001-W**	Jack N Connector • Bulkhead rear-mount • Female socket • Through-hole • O-ring in groove • 5/8”-24UNEF hex nut • Washer	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss** 0.45 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Surface Mount			
 **CONN013-W**	Jack N Connector • Panel-mount • Surface-mount • Female socket • 5/8”-24UNEF hex nut • Washer	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.19 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min.
Cable Termination			
 **CONN008-W**	Jack N Connector • 4-Hole flange-mount • Female socket • Cable end crimp • RG-55, RG-142, RG-223, RG-400 • Crimp ferrule/heat shrink	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3 **Insertion Loss** 0.35 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Phosphor Bronze **Mating Cycles** 500 min. **Flange Size** 25.4 mm x 25.4 mm (1.0 in x 1.0 in)
Solder Post	**Overview**	**Electrical Data**	**Mechanical Data**
 **CONN002-W**	Jack N Connector • 4-Hole flange-mount • 9.1 mm extended insulation • Female socket • Solder pin	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.7 **Insertion Loss** 0.29 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Phosphor Bronze **Mating Cycles** 500 min. **Flange Size** 17.5 mm x 17.5 mm (0.7 in x 0.7 in)
 **CONN003-W**	Jack N Connector • 4-Hole flange-mount • 9.1 mm extended insulation • Female socket • Solder cup	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4 **Insertion Loss** 0.15 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Phosphor Bronze **Mating Cycles** 500 min. **Flange Size** 25.4 mm x 25.4 mm (1.0 in x 1.0 in)

Free Hanging

Cable Termination	Overview	Electrical Data	Mechanical Data
 **CONN007-1-W**	Plug N Connector • Free-hanging (inline) • Cable end crimp • Belden 9913, Belden 9914 • LMR-400 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.46 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONN007-2-W**	Plug N Connector • Free-hanging (inline) • Cable end crimp • RG-8X, Belden 9258 • LMR-240 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.9 **Insertion Loss** 1.04 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONN007-3-W**	Plug N Connector • Free-hanging (inline) • Cable end crimp • RG-58/58A/58B/58C • RG-141, RG-303, LMR-195 • Belden B7806A, Belden 9907 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5 **Insertion Loss** 0.30 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONN007-4-W**	Plug N Connector • Free-hanging (inline) • Cable end crimp • RG-55, RG-142, RG-223, RG-400 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.9 **Insertion Loss** 0.48 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.
 **CONN012-1-W**	Plug N Connector • Free-hanging (inline) • Cable end crimp • RG-8X, Belden 9258, LMR-240 • Male pin • Crimp ferrule/heat shrink	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 2.3 **Insertion Loss** 0.96 dB Max. @ 6 GHz	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min.

RF Adapter Cross-Reference Chart

RF Adapter	Port 1	Port 2	Notes
ADP-SMAF-SMAF-*	SMA Jack	SMA Jack	
ADP-SMAM-SMAM-*	SMA Plug	SMA Plug	
CONSMA010-*	SMA Plug	SMA Jack	Right-angle
ADP-SMAM-RPSF-*	SMA Plug	RP-SMA Jack	
ADP-RPSM-SMAF-*	RP-SMA Jack	SMA Jack	
CONREVSMA010-*	RP-SMA Plug	RP-SMA Jack	Right-angle
ADP-SMAF-SMBF-G	SMA Jack	SMB Jack	
ADP-SMAF-SMBM-G	SMA Jack	SMB Plug	
ADP-SMAF-SMPF-G	SMA Jack	SMP Jack	
ADP-SMAF-SMPM-SSB	SMA Jack	SMP Plug	Bulkhead Mount (O-Ring), Stainless Steel
ADP-SMAM-SMBF-G	SMA Plug	SMB Jack	
ADP-SMAM-SMBM-G	SMA Plug	SMB Plug	
ADP-SMAF-MCXM	SMA Jack	MCX Plug	
ADP-SMAM-MCXF	SMA Plug	MCX Jack	
ADP-SMAM-MCXM	SMA Plug	MCX Plug	
ADP-SMAF-MMXM	SMA Jack	MMCX Plug	
ADP-SMAM-MMXF	SMA Plug	MMCX Jack	
ADP-SMAM-MMXM	SMA Plug	MMCX Plug	
ADP-SMAF-UFLM	SMA Jack	U.FL-Type Plug	
ADP-SMAM-UFLF	SMA Plug	U.FL-Type Jack	
ADP-SMAF-NM	SMA Jack	N Plug	
ADP-RPSF-NM	RP-SMA Jack	N Plug	
ADP-SMAF-BNCM	SMA Jack	BNC Plug	
ADP-SMAF-SMAF-B-G	SMA Jack	SMA Jack	Bulkhead Mount (Hex Nut, Washer)
ADP-SMAF-SMAF-F-G	SMA Jack	SMA Jack	Flange Mount
ADP-SMAF-SMAF-SSB-G	SMA Jack	SMA Jack	Bulkhead Mount (Hex Nut, Washer, O-Ring)Stainless Steel
ADP-SMAF-NF-B-W	SMA Jack	N Jack	Bulkhead Mount (Hex Nut, Washer, O-Ring)
ADP-SMPF-SMPF-G	SMA Jack	SMP Jack	
ADP-NF-NF-B-W	N Jack	N Jack	Bulkhead Mount (Hex Nut, Washer)

* Model numbers with an asterisk indicate nickel and gold plating options

ADAPTERS

Inline

Free Hanging	Overview	Electrical Data	Mechanical Data
 **ADP-SMAF-SMAF***	Port A • Jack SMA connector • Female socket Port B • Jack SMA connector • Female socket	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2	**Body Material** Brass **Body Finish*** Nickle Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-SMAM***	Port A • Plug SMA connector • Male pin Port B • Plug SMA connector • Male pin	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5	**Body Material** Brass **Body Finish*** Nickle Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **CONSMA010***	Port A • Plug SMA connector • Male pin Port B • Jack SMA connector • Female socket Right angle	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5	**Body Material** Brass **Body Finish*** Nickle Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-RPSF***	Port A • Plug SMA connector • Male pin Port B • Jack RP-SMA connector • Male pin	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Nickle Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-RPSM-SMAF***	Port A • Plug RP-SMA connector • Female socket Port B • Jack SMA connector • Female socket	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2	**Body Material** Brass **Body Finish*** Nickle Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **CONREVSMA010***	Port A • Plug RP-SMA connector • Female socket Port B • Jack RP-SMA connector • Male pin Right angle	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5	**Body Material** Brass **Body Finish*** Nickle Gold **Dielectric** PTFE **Center Contact** Phosphor Bronze **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAF-SMBF-G**	Port A • Jack SMA connector • Female socket Port B • Jack SMB connector • Male pin	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.1	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C

Free Hanging	Overview	Electrical Data	Mechanical Data
 **ADP-SMAF-SMBM-G**	Port A • Jack SMA connector • Female socket Port B • Plug SMB connector • Female socket	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.1	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAF-SMPF-G**	Port A • Jack SMA connector • Female socket Port B • Jack SMP connector • Female socket	**Frequency Range** 0 to 20 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAF-SMPM-SSB**	Port A • Jack SMA connector • Female socket Port B • Plug SMB connector • Female socket	**Frequency Range** 0 to 20 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2	**Body Material** Brass **Body Finish*** Passivated **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-SMBF-G**	Port A • Plug SMA connector • Male pin Port B • Jack SMB connector • Male pin	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.0	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-SMBM-G**	Port A • Plug SMA connector • Male pin Port B • Plug SMB connector • Female socket	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.1	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAF-MCXM**	Port A • Jack SMA connector • Female soxket Port B • Plug MCX connector • Male pin	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-MCXF**	Port A • Plug SMA connector • Male pin Port B • Jack MCX connector • Female socket	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.4	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-MCXM**	Port A • Plug SMA connector • Male pin Port B • Plug MCX connector • Male pin	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C

Free Hanging	Overview	Electrical Data	Mechanical Data
 **ADP-SMAF-MMXM**	Port A • Jack SMA connector • Female soxket Port B • Plug MMCX connector • Male pin	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C
 **ADP-SMAM-MMXF**	Port A • Plug SMA connector • Male pin Port B • Jack MMCX connector • Female socket	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C
 **ADP-SMAM-MMXM**	Port A • Plug SMA connector • Male pin Port B • Plug MMCX connector • Male pin	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C
 **ADP-SMAF-UFLM**	Port A • Jack SMA connector • Female soxket Port B • Plug MHF1/U.FL connector • Male pin	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAM-UFLF**	Port A • Plug SMA connector • Male pin Port B • Jack MHF1/U.FL connector • Female socket	**Frequency Range** 0 to 6 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C
 **ADP-SMAF-NM**	Port A • Jack SMA connector • Female socket Port B • Plug N connector • Male pin	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Nickle **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C
 **ADP-RPSF-NM**	Port A • Jack RP-SMA connector • Male pin Port B • Plug N connector • Male pin	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Nickle **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C
 **ADP-SMAF-BNCM**	Port A • Jack SMA connector • Female socket Port B • Plug BNC connector • Male pin	**Frequency Range** 0 to 4 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Nickle **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -55 °C to +125 °C

Panel Mount

	Overview	Electrical Data	Mechanical Data
 **ADP-SMAF-SMAF-B-G**	Port A • Jack SMA connector • Female socket Port B • Jack SMA connector • Female socket Bulkhead 1/4"-36UNS hex nut Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAF-SMAF-F-G**	Port A • Jack SMA connector • Female socket Port B • Jack SMA connector • Female socket 4-hole flange	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C **Flange Size** 12.7 mm x 12.7 m (0.5 in x 0.5 in)
 **ADP-SMAF-SMAF-SSB-G**	Port A • Jack SMA connector • Female socket Port B • Jack SMA connector • Female socket Bulkhead O-ring in groove 1/4"-36UNS hex nut Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.2	**Body Material** Stainless steel **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-SMAF-NF-B-W**	Port A • Jack SMA connector • Female socket Port B • Plug N connector • Male pin Bulkhead O-ring in groove 5/8"-24UNEF hex nut Washer	**Frequency Range** 0 to 18 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.3	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C

	Overview	Electrical Data	Mechanical Data
 **ADP-SMPF-SMPF-G**	Port A • Jack SMP connector • Female socket Port B • Jack SMP connector • Female socket	**Frequency Range** GHz 0 to 26.5 **Impedance**(Ohms) 50 **VSWR**(max) 1.5	**Body Material** Beryllium Copper **Body Finish*** Gold **Dielectric** PTFE **Center Contact** Beryllium Copper **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C
 **ADP-NF-NF-B-W**	Port A • Jack N connector • Female socket Port B • Jack N connector • Female socket Bulkhead O-ring in groove 5/8"-24UNEF hex nut Washer	**Frequency Range** 0 to 11 GHz **Impedance**(Ohms) 50 **VSWR**(max) 1.5	**Body Material** Brass **Body Finish*** White Bronze **Dielectric** PTFE **Center Contact** Brass **Mating Cycles** 500 min. **Operating Temp.** -65 °C to +165 °C

LIGHTNING ARRESTERS

Linx lightning arresters offer protection from overload in electronic circuits by diverting excessive cur-rent generated by thunderstorms directly to ground.

- Grounding lug provided for attachement to 18 AWG, or larger stranded wire
- Gas discharge DC pass-through type arrestors last 5 years of service before needing replacement

Inline

Free Hanging	Overview	Electrical Data		Mechanical Data	
 **ARR-NF-NF-B**	Port A • Jack N connector • Female socket Port B • Jack N connector • Female socket Bulkhead O-ring in groove 5/8"-24UNEF hex nut Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 6 GHz 50 1.0 @ 2.4 GHz 1.3 @ 6 GHz 0.11 dB Max. @ 2.4 GHz 0.20 dB Max. @ 6 GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Operating Temp.**	Brass Nickle PTFE Brass 500 min. -55 °C to +105 °C
 **ARR-NF-NM-B**	Port A • Plug N connector • Male pin Port B • Jack N connector • Female socket Bulkhead O-ring in groove 5/8"-24UNEF hex nut Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 6 GHz 50 1.0 @ 2.4 GHz 1.3 @ 6 GHz 0.12 dB Max. @ 2.4 GHz 0.31 dB Max. @ 6 GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Operating Temp.**	Brass Nickle PTFE Brass 500 min. -55 °C to +105 °C
 **ARR-NF-NF-B-8**	Port A • Jack N connector • Female socket Port B • Jack N connector • Female socket Bulkhead O-ring in groove 5/8"-24UNEF hex nut Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 8 GHz 50 1.1 @ 2.4 GHz 1.2 @ 8 GHz 0.08 dB Max. @ 2.4 GHz 0.26 dB Max. @ 8 GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Operating Temp.**	Brass Nickle PTFE Brass 500 min. -55 °C to +105 °C
 **ARR-NF-NM-B-8**	Port A • Plug N connector • Male pin Port B • Jack N connector • Female socket Bulkhead O-ring in groove 5/8"-24UNEF hex nut Washer	**Frequency Range** **Impedance**(Ohms) **VSWR**(max) **Insertion Loss**	0 to 8 GHz 50 1.0 @ 2.4 GHz 1.3 @ 8 GHz 0.16 dB Max. @ 2.4 GHz 0.39 dB Max. @ 8 GHz	**Body Material** **Body Finish*** **Dielectric** **Center Contact** **Mating Cycles** **Operating Temp.**	Brass Nickle PTFE Brass 500 min. -55 °C to +105 °C

Connector Gender and Polarity

RF coaxial connectors come in a wide variety of sizes, attachment types (including cable-termination, panel-mount and surface-mount) and coupling systems (most commonly screw-on and snap-on). All have the common traits of a center conductor to conduct a radio frequency signal and a connector housing to make and hold the connection as well as provide grounded shielding of the signal as depicted in the SMA connectors in Figure 2.

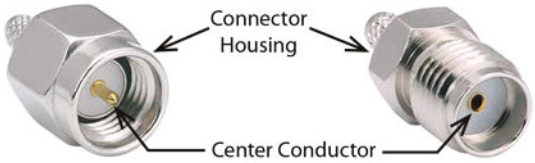


Figure 2. SMA Connectors

The ways in which the two housings and center conductors engage to make both physical and electrical connection have been treated as physical genders, male and female, to describe which half of the connection is which. There are a number of other terms used for the same purpose and they generally align as shown in Figure 3.

Male		Female
Plug	Connection Interface	Jack
Pin		Socket
		Receptacle

Figure 3. Typical RF Coaxial Connector Gender Terms

Of these terms, female or socket, and male or pin, are most often used to refer to the center conductor of the connector while plug and jack are most often used to refer to the housing connection. When considering the mechanical connection which the housing creates between the two connectors, the plug is generally the connector having the housing that initiates and/or holds the mechanical connection. However, there are no rules or even firm conventions across RF industry. The SMA connector shown in Figure 2 is likely the most common and well-known RF coaxial connector in use. Using that as the "standard," the connector on the left has a housing that is a plug with a male, or pin, center conductor and the whole assembly is commonly called an SMA plug. The connector on the right is a jack with a female, or socket, center conductor and the assembly is commonly called an SMA Jack. If the connector on the right was intended for printed circuit board mounting, it might be referred to as a receptacle instead of jack.

However, there exists what is called a reverse-polarity SMA (RP-SMA) connector which reverses the center conductors. With an RP-SMA connector, the plug housing has a female/socket center conductor and the jack housing has a male/pin center conductor.

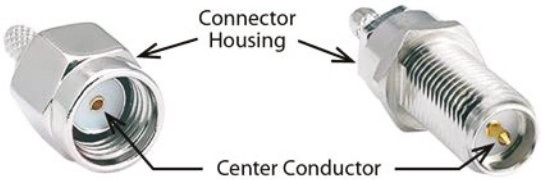


Figure 4. RP-SMA Connectors

Other connector families offer even greater challenges in understanding connector gender naming. U.FL-type connectors, also called MHF, AMC or UMCC connectors depending on manufacturer, often follow the RP-SMA format as the norm.

Connector Gender and Polarity (continued)

With U.FL connectors, as shown in Figure 5, the housing on the cable is a plug, but in almost all cases, particularly when used as the cabled connection for an antenna, the center conductor is female/socket. The opposite connector is seldom used on a cable and is most often mounted on a printed circuit board and called a receptacle even though it has a male/pin center conductor. While this may be confusing, there is a rationale for it. U.FL receptacles on a PCB board use the robust pin center conductor to last the life of the board which may require many connects and disconnects, while the more easily replaceable cabled plug must maintain the mechanical connection but is not expected to withstand as many interconnect cycles as the receptacle.

Figure 5. U.FL-Type Connectors

Other connector families exhibit similar traits as well as inconsistencies. Therefore, careful review of RF coaxial connector genders is required in design and specification.

Solder Reflow Profile

Figure 6 shows the solder reflow profile for Linx surface mount connectors.

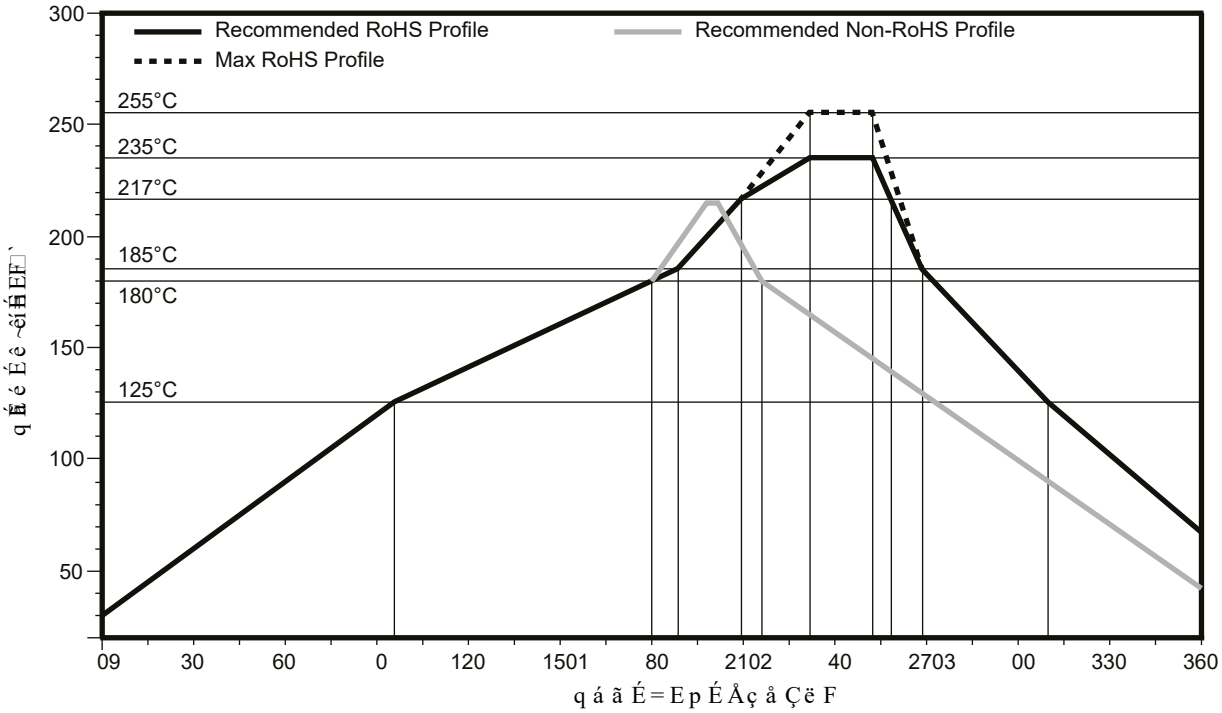
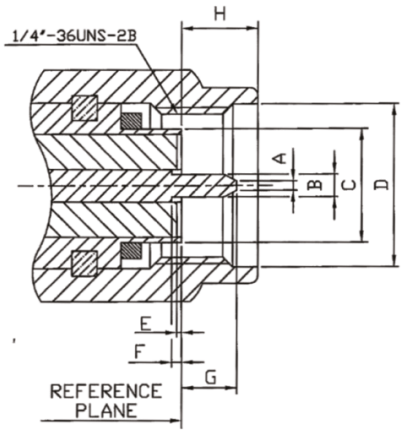


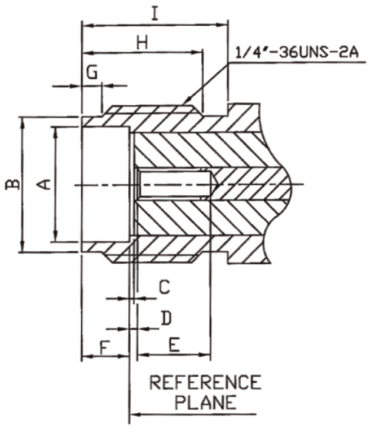
Figure 6. Solder Reflow Profile for Surface Mount Connectors

CONNECTOR INTERFACE MATING DIMENSIONS

SMA connector interface dimensions



SMA Plug

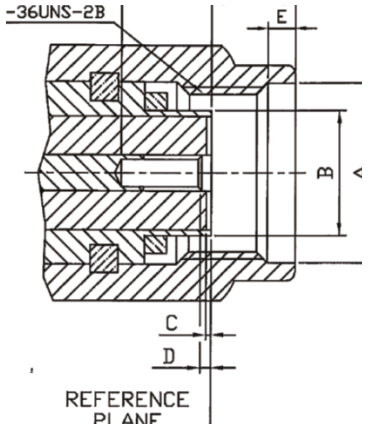


SMA Jack

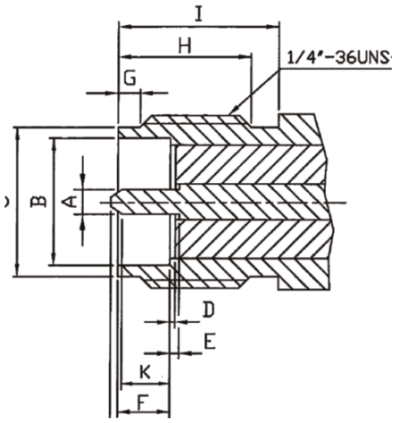
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	0.00 (.000)	0.30 (.012)
B	0.90 (.0355)	0.94 (.037)
C	–	4.59 (.1808)
D	6.35 (.250)	–
E	0.00 (.000)	0.25 (.010)
F	0.00 (.000)	0.25 (.010)
G	–	2.54 (.100)
H	–	3.43 (.135)

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	4.60 (.1810)	–
B	5.28 (.208)	5.49 (.216)
C	0.00 (.000)	0.25 (.010)
D	0.00 (.000)	0.25 (.010)
E	2.67 (.105)	–
F	1.88 (.074)	1.98 (.078)
G	0.38 (.015)	1.14 (.045)
H	4.32 (.170)	–
I	5.54 (.218)	–

RP-SMA connector interface dimensions



RP-SMA Plug

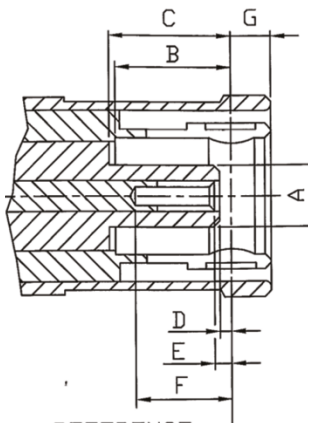


RP-SMA Jack

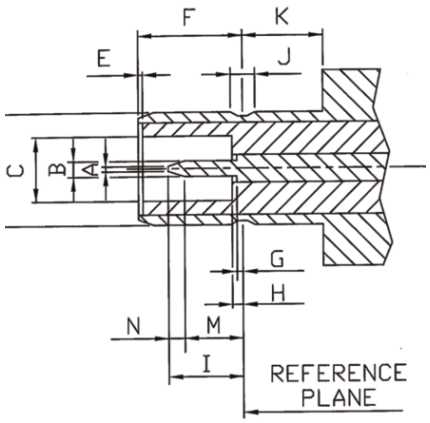
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	6.35 (.250)	–
B	–	4.59 (.1808)
C	–	0.25 (.010)
D	0.00 (.000)	0.25 (.010)
E	0.00 (.000)	1.14 (.045)
F	–	3.43 (.135)
G	2.92 (.115)	–

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	0.90 (.0355)	0.94 (.037)
B	4.60 (.1810)	–
C	5.28 (.208)	5.49 (.216)
D	0.00 (.000)	0.25 (.010)
E	0.00 (.000)	0.25 (.010)
F	1.88 (.074)	1.98 (.078)
G	0.38 (.015)	1.14 (.045)
H	4.32 (.170)	–
I	5.54 (.218)	–
J	–	2.54 (.100)
K	1.27 (.050)	–

SMB connector interface dimensions



SMB Plug

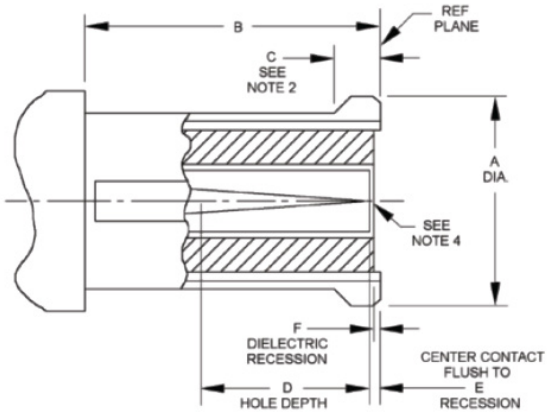


SMB Jack

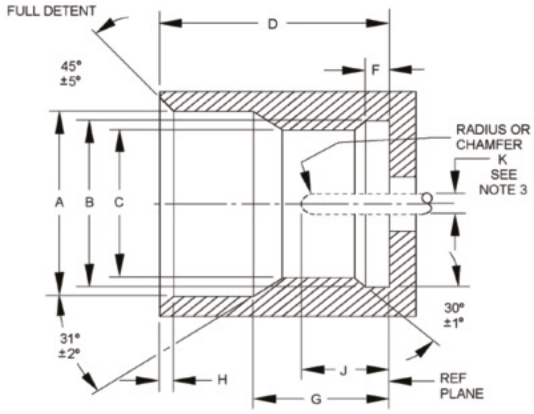
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	–	2.06 (.081)
B	3.58 (.141)	–
C	3.58 (.141)	–
D	0.18 (.007)	–
E	0.18 (.007)	0.94 (.037)
F	2.97 (.117)	–
G	–	1.63 (.064)

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	–	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.08 (.082)	–
D	3.66 (.144)	3.71 (.146)
E	0.00 (.000)	–
F	3.33 (.131)	3.58 (.141)
G	–	0.18 (.007)
H	–	0.18 (.007)
I	2.39 (.094)	2.97 (.117)
J	0.69 (.027)	0.94 (.037)
K	1.65 (.065)	
M	1.31 (.052)	
N	0.25 (.010)	

SMP connector - interface dimensions



SMP JACK

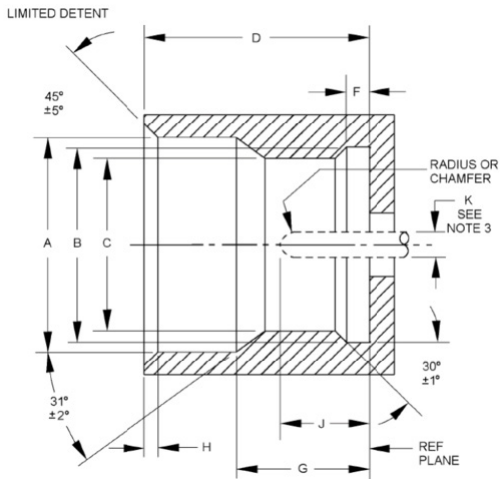


SMP Plug (Full Detent)

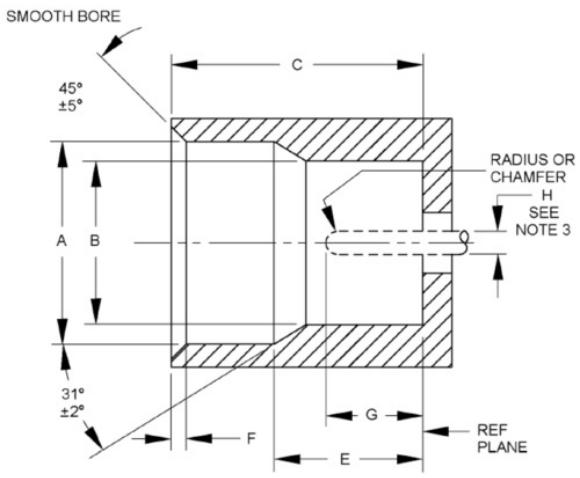
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	–	3.43 (0.135)
B	2.84 (0.112)	–
C	0.46 (0.018)	0.64 (0.025)
D	1.78 (0.07)	–
E	0	0.20 (0.008)
F	0	–

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	3.53 (0.139)	0.25 (.010)
B	3.15 (0.124)	0.53 (.021)
C	2.92 (0.115)	–
D	2.74 (0.108)	3.71 (.146)
E	–	–
F	0.521 (0.0205)	3.58 (.141)
G	1.85 (0.073)	0.18 (.007)
H	0.08 (0.003)	0.18 (.007)
J	1.14 (0.045)	2.97 (.117)
K	0.36 (0.014)	0.94 (.037)

SMP connector - interface dimensions



SMP Plug (Limited Detent)

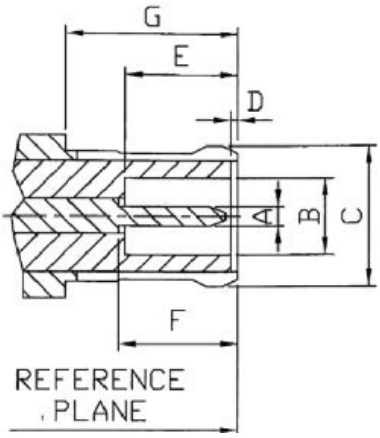


SMP Plug (Smooth Bore)

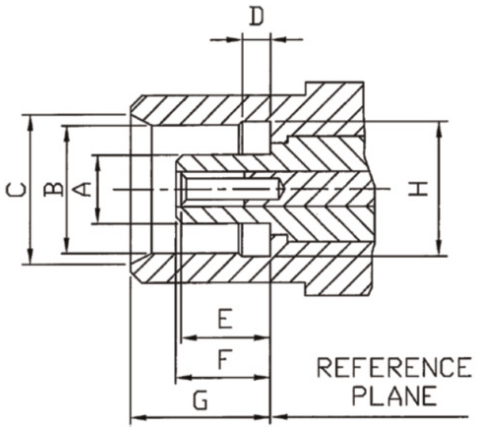
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	3.53 (0.139)	3.68 (0.145)
B	3.15 (0.124)	3.20 (0.126)
C	3.02 (0.119)	3.07 (0.121)
D	2.74 (0.108)	2.84 (0.112)
E	–	–
F	0.521 (0.0205)	0.597 (0.0235)
G	1.85 (0.073)	1.96 (0.077)
H	0.08 (0.003)	0.20 (0.008)
J	1.14 (0.045)	1.40 (0.055)
K	0.36 (0.014)	0.41 (0.016)

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	3.53 (0.139)	3.68 (0.145)
B	3.15 (0.124)	3.20 (0.126)
C	2.74 (0.108)	2.84 (0.112)
D	–	–
E	1.85 (0.073)	1.96 (0.077)
F	0.08 (0.003)	0.20 (0.008)
G	1.14 (0.045)	1.40 (0.055)
H	0.36 (0.014)	0.41 (0.016)

MCX connector interface dimensions



MCX Plug

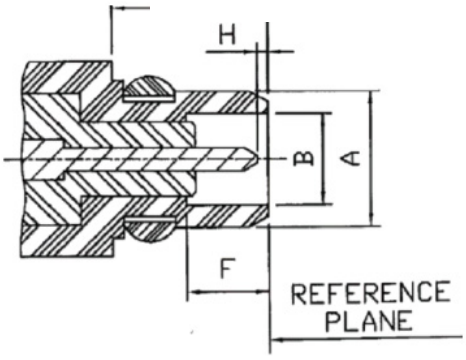


MCX Jack

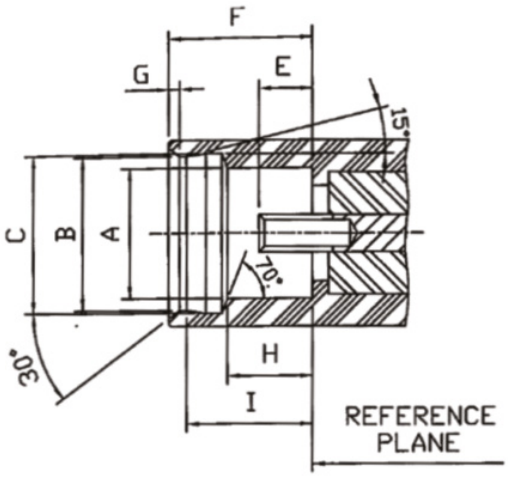
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	0.48 (.019)	0.53 (.021)
B	2.00 (.079)	–
C	–	3.81 (.150)
D	0.00 (.000)	0.30 (.012)
E	2.80 (.110)	–
F	2.80 (.110)	3.20 (.126)
G	4.15 (.163)	–
H	–	–

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	–	1.98 (.078)
B	3.42 (.135)	3.48 (.137)
C	3.80 (.150)	–
D	0.75 (.030)	0.85 (.033)
E	2.30 (.090)	2.80 (.110)
F	2.60 (.102)	2.80 (.110)
G	4.00 (.157)	4.12 (.162)
H	3.60 (.142)	3.75 (147)

MMCX connector interface dimensions



MMCX PLUG

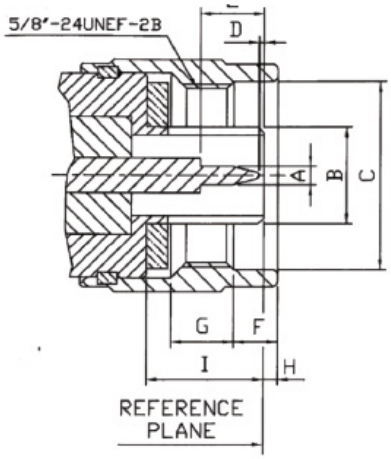


MMCX JACK

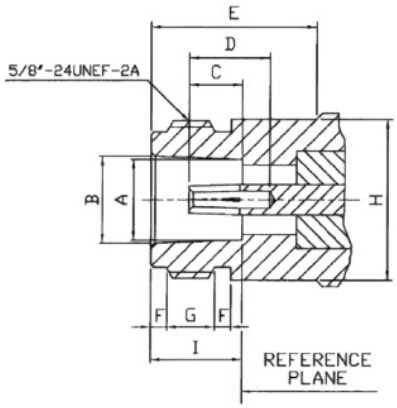
Dimension	Millimeters (inches)	
	Minimum	Maximum
A	–	2.40 (.094)
B	1.58 (.062)	1.62 (.064)
C	–	0.20 (.008)
D	–	3.15 (.124)
E	2.70 (.106)	–
F	1.45 (.057)	–
G	0.38 (.015)	0.42 (.017)
H	0.00 (.000)	0.25 (.010)

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	2.41 (.095)	–
B	2.88 (.113)	2.90 (.114)
C	3.00 (.118)	3.04 (.120)
D	1.40 (.055)	–
E	0.90 (.035)	1.20 (.047)
F	2.60 (.102)	–
G	–	0.23 (.009)
H	1.57 (.062)	1.63 (.064)
I	2.30 (.091)	2.34 (.092)

N connector interface dimensions



N PLUG



N JACK

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	1.60 (.063)	1.68 (.066)
B	–	8.38 (.330)
C	16.00 (.630)	–
D	0.08 (.003)	–
E	5.33 (.210)	5.84 (.230)
F	4.01 (.158)	4.27 (.168)
G	4.50 (.177)	–
H	0.41 (.016)	1.52 (.060)
I	10.11 (.398)	10.46 (.412)

Dimension	Millimeters (inches)	
	Minimum	Maximum
A	8.03 (.316)	8.13 (.320)
B	8.53 (.336)	8.74 (.344)
C	4.75 (.187)	5.26 (.207)
D	5.33 (.210)	–
E	10.72 (.422)	–
F	1.19 (.047)	1.96 (.077)
G	4.37 (.172)	5.13 (.202)
H	–	15.93 (.627)
I	9.04 (.356)	9.19 (.362)

te.com

TE Connectivity, TE, TE connectivity (logo), Linx and Linx Technologies are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warrantied to exceed one (1) year from the original date of the end product purchase.

©2023 TE Connectivity. All Rights Reserved.

11/23 Original

Linx TECHNOLOGIES is now part of TE connectivity