


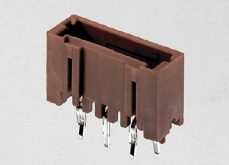


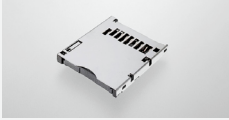
HANDHELD

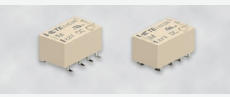
SPECIFIC APPLICATION:


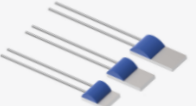

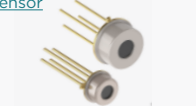
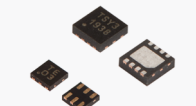
- Multimeter
- Protocol Analyzer
- Power Meter
- Network Test Equipment
- Interference Test Equipment

Product	Features	Benefits	Product Family
Board to Board			
0.5, 0.6, 0.8 mm Free Height 	<ul style="list-style-type: none"> Allows for high pin counts in a small footprint to save PC board real estate Available in 220, 240, and 440 position configurations Offered in a variety of stacking heights, ranging from 5mm to 8mm Available on tape-and-reel packaging for lead protection and automated placement Intel qualified for COM Express 	<ul style="list-style-type: none"> Allows for high pin counts in a small footprint to save PC board real estate Offered in a variety of stacking heights, ranging from 5mm to 8mm Available on tape-and-reel packaging for lead protection and automated placement Compatible with standard pick-and-place vacuum nozzles Available with UL and RoHS compliant parts 	Board-To-Board Connectors
MICTOR (12G) Connectors 	<ul style="list-style-type: none"> 2-piece connector accommodates a variety of printed circuit board thicknesses, provides controlled impedance Single beam and hybrid connector, with dedicated ground bar used for low crosstalk or as power pin; each power pin carries 9.5 A 12 Gbps high speed data rates 0.8 mm pitch surface mount tail Various stack heights between 5mm - 30mm; Available stacking heights are: 5, 8, 11, 14, 16, 19, 22, 25, and 30 Positions from 28 to 200; fully loaded positions: 40, 80, 120, 160, and 200; not fully loaded positions: 28, 56, 84, 112, and 140 	<ul style="list-style-type: none"> Reliable signal integrity and excellent signal speed Free pin assignment with a wide range of choices for customers' system design and package Robust and smart housing design Competitive pricing, shorter lead time and faster response 	Board-To-Board Connectors
M.2 	<ul style="list-style-type: none"> 0.5mm pitch with 67 positions Designed for both single- and double-sided modules Available in various keying options for module cards Support PCI Express 3.0, USB 3.0, and SATA 3.0 Choice in height, position, design, and keying option Available in various heights 	<ul style="list-style-type: none"> The M.2 Next Generation Form Factor (NGFF) product line is a natural transition from the mini card and half-mini card to a smaller form factor in both size and volume. WiFi, Bluetooth, global navigation satellite systems, near field communication, hybrid digital radio, Wireless Gigabit Alliance (WiGig), wireless Wide Area Network, and solid-state storage devices It also adds functionality to PCIe Gen 3, SATA 3, SATA I/O, and USB 3.0. The new, smaller form factor is suitable for applications in new thin platforms 	PCB Connectors
RF / Shielding / Grounding			
BNC, SMA, N, SMB, MHF 	<ul style="list-style-type: none"> Bayonet lock coupling for quick connect/disconnect Various connectors available in 50 and 75 ohm versions Fully intermateable with comparable BNC UG/U connectors Full range of Hex Crimp and O Crimp Products for common coaxial cables. Low VSWR 	<ul style="list-style-type: none"> Engineered to work at radio frequencies ranging from a few MHz to over 100 GHz RF connectors are designed to perform in rugged, challenging environments, while maintaining low insertion losses, superb voltage standing wave ratio, and other mechanical and electrical functions 	RF Coax Connectors
Board Level Shielding (BLS) 	<ul style="list-style-type: none"> Two-piece solution (minimum 0.85mm height) One-piece solution (minimum 0.7mm height) Standardized materials and thicknesses Use of standardized features includes: corner shape, carrier attachment, SMT (castellations), bending radii, pick and place features, through holes, locking holes, locking and contact dimples 	<ul style="list-style-type: none"> EMI shields that minimize crosstalk in complex devices without affecting system speed 	EMI Filters
Spring Fingers 	<ul style="list-style-type: none"> Extensive off-the-shelf offering of spring fingers/grounding products Available in heights as low as 0.4mm and up to 7.0mm Type: standard, side-protected, preloaded, ultra low-profile The preload function nearly doubles the working area of a common spring finger and increases contact force by 0.2N 	<ul style="list-style-type: none"> Tiny, scalable, surface mountable contacts allow designers to fit grounding solutions almost anywhere 	Board-To-Board Connectors

Product	Features	Benefits	Product Family
Input/Output			
Amplimite 	<ul style="list-style-type: none"> Provide the highest resistance to flammability with UL94V-0 rated thermoplastic housing High density D type interface 20 through 100 contact positions Excellent EMI/RFI protection Protect your system with shields that mate before contacts, with ground mating first and breaking last Squeeze-to-release latches or jackscrew hardware available to fit your needs 	<ul style="list-style-type: none"> Enable comprehensive design options to meet virtually any system need with cable and right-angle or straight PCB mounted configurations Support maximum design freedom with a large variety of termination options such as (wave) soldering, crimping, IDC, ribbon cable and action pin Utilize for harsh environments with a rugged design Help improve durability with front metal, full metal and plastic shell offerings Reduce overall header volume by 48% and PC board area by 38% with stacked headers to allow more space for other components Adapt to specific applications with a large portfolio of kits and accessories Offer an optional contact shield for additional EMI/ RFI protection Comply with SCSI or VESA industry standards Allow for easy assembly of connectors to PCBs with integral board locks or female screw locks 	D-Shaped Connectors
USB A/C 	<ul style="list-style-type: none"> Supports USB 2.0, USB 3.1 Gen 1 and USB 3.1 Gen 2 types Deliver power up to 100W at 20V IPX8 waterproof and IPX4 splash proof options available Available in one of the smallest dual row SMT footprints, saving valuable board real-estate 	<ul style="list-style-type: none"> Provide one interconnect solution for data, power, and A/V Designed with a flippable and reversible mating interface Backward compatible to other USB connectors using converter cables or adaptors Distinctive design on the back of the receptacle shell for industry leading EMI performance Enhanced board retention features for added durability 	USB Connectors
RJ45 	<ul style="list-style-type: none"> 30u inch gold plating LCP materials Industrial temperature range -45 up to +85°C Reflow solderable 3 wire choke 10/100Mbps and 1Gbps data rates 1x1, 2x1 and 1x2 form factors with LED option available PoE, PoE+ and PoE++ supported 	<ul style="list-style-type: none"> Improved reliability through high current temperature of magnetics, high temp materials (LCP), and 3uinch gold contact plating Corrosion proof through to gold plated contacts Industrial temperature range for applications on factory floor not regulated from a temperature point of view Excellent signal integrity and minimum saturation providing less transmission errors by use of three wire choke (no interference between PoE and signals) Improved processability through a single solder process needed for equipment production Optimized packaging for customers production situation through T&R and Tray packaging available 	Connectors
Wire To Board			
FPC (4 BtB or ZIF or LIF) 	<ul style="list-style-type: none"> Pitch: 0.25 to 1.25 pitch Pin counts: 3 to 60 pins Slant FPC insertion option to maximize PCB layout area Low profile (less than 1mm) economical product offerings Wide portfolio enabling high design flexibility with proven quality & reliability 	<ul style="list-style-type: none"> Can accommodate FPC/FFC cable Available in ZIF and non-ZIF styles Variety of centerline spacing options Available in SMT and T/H PCB termination Requires no tooling Available in right-angle and vertical mounting orientations Right-angle version available with top, bottom or dual contact Solder pads and kinked legs for PCB retention Locking feature provides high retention force 	FFC, FPC & Ribbon Connectors

Product	Features	Benefits	Product Family
Wire To Board			
High Performance Interconnects (HPI) 	<ul style="list-style-type: none"> Centerline: 1.0mm - 2.5mm Positions: 2 - 32 Square-peg technology enables product compatibility with industry standard products Broad portfolio that can be used anywhere a signal or low power needs to be routed through a device 	<ul style="list-style-type: none"> High performance and high reliability Square-peg style enables interchangeability with competitors Header + COSI (crimp on snap in) connectors Polarized Positive latching with audible click feedback when mating Different colors available for system color coding AWG 30-24 	Wire-To-Board Connectors
CT, Mini CT, Micro 	<ul style="list-style-type: none"> Two termination methods: IDC, Crimp IDC AWG 26-28 Crimp AWG 24-28 Circuits range from 2-20 single row and 20-40 dual row Kinked leg options for self-retention on boards Drawer and lattice series Panel mount configuration available RoHS compliant Component Program of Underwriters Laboratories Inc., File No. E28476 Canadian Standards Association, File No. LR 7189-133 	<ul style="list-style-type: none"> Similar to the standard AMP CT connector series that has proven performance in harness-making capability Variety of harness-making machines are available, ranging from hand tools for low volume production to automatic crimping machines Two types of housings are available, including crimp and mass terminated (MT), which are preloaded with insulation disp displacement contacts 	Wire-to-Board Connectors
Power			
Micro USB Connectors 	<ul style="list-style-type: none"> Reliability-optimized design, provides a stable connection even after thousands of insertions Cost savings achieved by the integration of power and data transportation within one connector Our large portfolio and highly customizable product provides the best possible design flexibility 	<ul style="list-style-type: none"> Small size connector High design freedom Increased robustness and superior durability Cost-efficient solution 	Audio & Video Connectors
DC Jack (Battery, Barrel) 	<ul style="list-style-type: none"> Small size that allows easy integration Snap features to lock DC jack in the cover Double spring ground contact enhances plug force extraction Laser marking for identification purposes 	<ul style="list-style-type: none"> Widespread market acceptance Low costs and easy application Easy handling for end customer and commonly - accepted connection 	Battery Connectors & Holders
Card and Sockets			
Mini SD 	<ul style="list-style-type: none"> Different connector configuration sizes: Standard and Micro High-speed data transfer rate Designed for ease of customer use with available push/push and push/pull mating Manufactured to meet existing SD memory card standards Available in top and bottom mounting configurations 	<ul style="list-style-type: none"> Designed for ease of customer use with available push/push and push/pull mating Manufactured to meet existing SD memory card standards Available in top and bottom mounting configurations 	Memory Card Connectors

Product	Features	Benefits	Product Family
Relays			
AXICOM IM Relays 	<ul style="list-style-type: none"> • Slim line 10x6mm, low profile 5.65mm and min. board-space 60mm² • Switching current 2/5A, switching power 60W/62.5VA and switching voltage 220VDC/250VAC • High dielectric and surge capability up to 2500Vrms between open contacts and 2500Vrms between coil and contacts. • Low coil power consumption, 140mW standard, 100mW for high sensitive version, 50mW for ultra high sensitive version and 100mW for bistable version • High contact reliability up to 10.000.000 operations • Very low and stable contact resistance • THT, SMT design for reflow soldering + providing a smaller footprint option • High mechanical shock resistance up to 50g functional 	<ul style="list-style-type: none"> • Small electromechanical relay fitting in many continuously shrinking customer applications • Contact structure options available (1 form A, 2 form A, 1 form C, 2 form C) which is often not provided without a large cost impact as seen in alternative technologies as solid state relays • Switches signal and low power • Support battery powered applications through a bi-stable solution that is not consuming constant power 	Axicom Relays
Switches			
Tactile Switches 	<ul style="list-style-type: none"> • Switches provide tactile feedback to users on contact with the control panel • Available in a range of sizes and actuator styles • LED capable 	<ul style="list-style-type: none"> • TE offers a large selection of tactile switches, ranging from miniature surface mount switches to IP rated tactile switches. TE's tactile switches can come in different actuator lengths that add a custom feature to fit in every design application 	Switches
DIP Switches 	<ul style="list-style-type: none"> • Wide portfolio of surface mount and through-hole DIP switches • Variety of actuator styles and sizes allows for wide range of applications in computers and peripherals • Position size ranges from 1 to 12 	<ul style="list-style-type: none"> • TE offers a large selection of tactile switches, ranging from miniature surface mount switches to IP rated tactile switches. TE's tactile switches can come in different actuator lengths that add a custom feature to fit in every design application. We also offer SIP switches that can package multiple resistors and RAM chips with a common pin 	Switches
Slide Switches 	<ul style="list-style-type: none"> • Available in multiple configurations and sizes • Switches come surface mounted or through-hole mounted and are available in different angles to provide ease of use 	<ul style="list-style-type: none"> • Its sizes are subminiature, miniature, and standard. There are many terminal types for slide switches, including feed-through style, wire leads, solder terminals, screw terminals, quick connect or blade terminals, surface mount technology, and panel mount switches 	Switches
Micro/Snap-Action Switches 	<ul style="list-style-type: none"> • Available in a range of actuator styles and mounting options • Snap product offering ranges from miniature styles to IP-rated switches and standard products 	<ul style="list-style-type: none"> • Large array of options including block, tray, and combo connectors 	Switches
Power Entry Module			
Filtered Inlets 	<ul style="list-style-type: none"> • Multiple filtered performance levels • Snap-in & flange-mounted versions available • C-13, C-14, C-18 inlets rated up to 15A • C-20 inlets rated up to 20A 	<ul style="list-style-type: none"> • Low leakage is ideal for medical applications • Multiple mounting options provide flexibility for installation needs 	EMI Filters

Product	Features	Benefits	Product Family
Sensors			
NTC thermistor assembly 	<ul style="list-style-type: none"> Standard 400 series resistance response Standard ¼" phone plug connector Reuse after cleaning Pressed disk ceramic sensor High sensitivity to temperature change 316 Stainless Steel tube 	<ul style="list-style-type: none"> Accurate Easy to use Reliable 	NTC Thermistors
RTD platinum thin film elements 	<ul style="list-style-type: none"> Accurate and stable temperature sensing over a broad range of temperatures Conforms to DIN EN 60751 Very low drift over lifetime Fast response time due to low thermal mass Variety of outline dimensions available to fit a wide range of space requirements Global interchangeability 	<ul style="list-style-type: none"> Ideal for lab calibration equipment Optimal solution for fast and precise feedback control systems 	RTD Temperature Sensors
Micro thermocouple 	<ul style="list-style-type: none"> Junction Types, Single and Dual: J, K, T, E Sheath Diameters: 0.188" Sheath Styles: Stainless Steel, Isolated Stainless Steel, Insulated Epoxy Glass, Copper Tip Leadwire/Cable Options Single and Dual Junctions Custom Designs 	<ul style="list-style-type: none"> Good for tight spaces Self-powered 	Temperature Sensors
Analog Infrared Thermopile Sensor 	<ul style="list-style-type: none"> Non contact Good accuracy Broad temperature range -40°C to +300°C measurement range Infrared filter window 	<ul style="list-style-type: none"> Contactless Good for handheld devices 	Thermopile Infrared - IR Sensors
TSYS0x digital sensors 	<ul style="list-style-type: none"> Miniature digital temperature sensor Adjustment of high accuracy temperature range on request Low Supply Current Easily adapt to the space available on a PC board Low thermal mass 	<ul style="list-style-type: none"> Easy to interface Good accuracy and suitable for battery powered applications 	Digital Temperature Sensors

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