

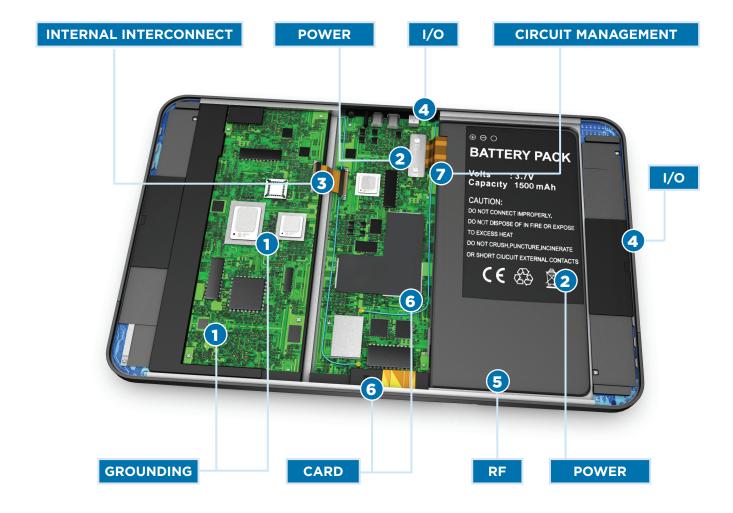


Innovative Solutions for Small Devices

TE Connectivity (TE) is on the cutting edge of technology innovation and a world leader in connectivity with more than 50 years of experience. TE has an extensive understanding of electromechanical and electronic components providing solutions in support of designs with space constraints. This solutions guide will allow you to easily select the components required for small devices, while providing access to additional online information through TE.com. TE's advanced technology in product development can help ease the transition to higher data rates, increased protection and smaller packaging with our industry leading components.



TE offers solutions for your space-saving design needs.



Products within each component type can be applied to small devices across various industries.



May Curon Pating (4), **Design Navigator** Con profile Design Crain Protection Products Available A High Vibration * Pich (mm) Get more information on te.com 🦪 by clicking on the product names below. Standards GROUNDING N/A Spring Fingers - PCB Grounding Contacts N/A N/A N/A N/A 2.0 - 2.5 INTERNAL INTERCONNECT 0.8mm Free Height (FH) Board-to-Board Connectors 0.8 0.5 N/A AMP CT & Mini CT Wire-to-Board Connectors 1.5 & 2.0 AMPMODU 50/50 Grid Board-to-Board & Wire-to-Board Conn. 0.050 x 0.050 UL, CSA 0.5 0.050 x 0.100 UL, CSA AMPMODU System 50 Board-to-Board & Wire-to-Board Conn. 3 • Card Edge Connectors for PCI Express Applications 11 MII -STD-202 2.5 4.5 UL, CSA Economy Power (EP) 2.5 Wire-to-Board Connectors 0.25 - 1.25 N/A Flexible Printed Circuit (FPC) Connectors Grace Inertia Wire-Applied Connectors 3.5 UL, CSA LCD Coaxial Embedded Display Interface (LCEDI) Conn. 0.5 • VESA* M8/M12 I/O Connector Systems N/A 3.0 UL, CSA, VDE Micro MATE-N-LOK Wire-Applied Connectors 5 Mini-Universal MATE-N-LOK Wire-Applied Connectors 4.14 11.2 • UL, CSA, VDF (250 V Max) Signal Double Lock Wire-Applied Connectors 2.5 3 • UL, CSA, VDE 0.9144 N/A UL <u>Sockets</u> Wire-to-Board High Performance Interconnects (HPI) 0.1 - 3.96 1-3 INPUT/ OUTPUT Cable Assemblies² N/A N/A UL, CSA, VDE 0.6 - 0.8 0.3 CHAMP Docking Series I/O Connectors Connectors for HDMI Standards N/A N/A HDMI* UL, CSA, ODVA Ethernet/IP, Profinet, CC-Link IE* Industrial Ethernet Products N/A 0.5 Micro USB Connectors Ν/Δ N/A Industry* N/A N/A VESA* Products Designed for DisplayPort Standard RU, UL, CSA, TIA-1096-A* RJ45 Modular Jacks & Plugs 1.27 1.5 RJ point five Connector System 0.5 7.0 N/A USB 2.0 Connectors 2.0 0.5 Industry* USB 3.0 Connectors 2.0 0.9 Industry USB Stacked 3.0 Connectors 2.0 0.9 Industry* Antenna Products N/A N/A N/A witching Coax Connectors 2.0 onnectors for Micro Secure Digital (SD) SDA* 0.5 Connectors for Secure Digital (SD) Memory Cards 2.5 0.5 • SDA* 2.54 0.5 ETSI* Cable ID Labels N/A N/A UL 969 Circuit Protection Devices² N/A N/A N/A UL, VDE, TUV, CQC, Industry* Force Guided Relays N/A Precision Resistors² N/A N/A N/A UL, CSA, Mil, Industry* Pressure Sensitive Adhesive Labels N/A N/A Signal Relays Ν/Δ 2 UL, VDE, TUV, CQC, Industry* N/A 3 N/A Slide Switches • N/A 50 Tactile Switches

UL - Underwriters Laboratories Listed

RU - Recognized Under

(see product page on te.com for more detail)



¹ May vary based on application and product selection

² Refer to the featured products section for more product detail

CSA - Canadian Standards Association

* Industry/Mil - Meets product specific industry standards or Mil specs

Featured Products





Spring Fingers - PCB Grounding Contacts

- Small footprint allows for versatility in design on PC board
- Uses standard equipment for soldering and pick-and-place to help eliminate the need for expensive specialized equipment
- Scalable family with common footprint allows for quick design changes

Website

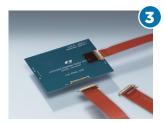
Quick Reference Guide Video



Battery Connectors

- Low profile design enables use in small factor devices allowing for design flexibility
- High current capacity enables battery connector to charge
- Multi-directional mating allows for design flexibility when mating the battery to the desired board

<u>Website</u> Catalog I Catalog II



LCD Coaxial Embedded Display Interface (LCEDI) Connectors

- Low profile height allows for design flexibility when configuring a PC board
- Full lock mechanism with pull bar is available to maintain greater mating retention
- Fully intermateable with I-PEX CABLINE-VS series to help standardize inventory

Website

Quick Reference Guide **Product Presentation**



AMPMODU System 50 Board-to-Board & Wire-to-Board Connectors

- Integral latches ensure a positive locking to the shrouded mating headers
- Housings on all board-mounted assemblies are made of high temperature tolerant materials and incorporate stand-offs for free drainage of flux cleaning solutions
- High pitch ribbon cable connectors are designed to save board space

Website <u>Catalog</u>

Quick Reference Guide



- Allows replacement of central processing units without soldering process
- Automated socket placement during product manufacturing helps ensure a secure fit
- Able to withstand lead-free process temperature and compliant with environmental regulations

Website I Website II



Micro MATE-N-LOK Wire-Applied Connectors

- Single-row and dual-row configurations are available to increase design flexibility
- Crimp, snap-in pin and receptacle contacts are used to terminate 24-20 [0.2-0.6] and 30-26 [0.05-0.15] AWG wire
- Header assemblies for wire-to-board interconnections include vertical and right-angle components

<u>Website</u> Catalog

Quick Reference Guide **Product Presentation**

Data Sheet



RJ point five Connector Systems

- Double density design and 7mm centerline spacing allows for additional space on the PC board
- Footprint will support both integrated magnetic and nonintegrated solutions for ease of design
- Cable assemblies are capable of field termination

<u>Website</u>

Quick Reference Guide **Product Presentation**

Video

Featured Products

Click on the links below and visit <u>te.com</u> for further information



Switching Coax Connectors

- Designed with an ultra low profile for use in applications with space constraints
- High force contact allows for improved and more reliable interconnection
- High speed allows for improved data rates for today's faster and more efficient applications

Website I Website II Catalog

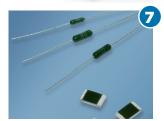


SIM Card Connectors

- Large portfolio covering several styles and card sizes to meet unique design requirements
- Fully-automated processing leads to stable quality
- Global footprint means enhanced support for all regions

<u>Website</u>

Quick Reference Guide



Precision Resistors

- Ultra low temperature conditions allow for long term application stability
- Thin film precision resistors minimize electronic noise
- Flexibility in lead-time/packaging helps minimize inventory cost

Website I
Website II
Catalog



Tactile Switches

- High life cycle allows for a longer life expectancy for your applications
- IP 67 (sealed version) available to help prevent any potential liquid or particle contamination within the switch

Website
Catalog I
Catalog II

<u>eLearning Module</u>



Circuit Protection Devices

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- Helps protect sensitive electronics from overcurrent and overvoltage events which can cause system failure
- Helps equipment comply with regulatory safety standard certifications such as UL, IEC, TIA and ITU-T and other protection requirements
- Helps provide protection against thermal runaway

Website
Catalog I
Catalog II
Quick Reference Guide

eLearning Module

OVERCURRENT CIRCUIT PROTECTION **OVERVOLTAGE CIRCUIT** HYBRID CIRCUIT Chip Fuses Pulse 2410 0603 Very **PolySwitch** MHP PolyZen Fast Acting Slow Blow ESD SESD Very Fast Acting Fuse **Tolerant** Fast Acting Devices Devices Devices Chip Fuses SMALL DEVICES Antennas Audio Input/Output • • • • • • • • Batteries • • Buttons Displays LEDs • • • • • • • • Ports • • • • • • • •



Power Input

Insert TE Authorized Distributor logo here



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