### Coaxial RF Products: Quick View

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<td>1.3 @ 11 GHz</td>
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<tr>
<td>TNC</td>
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<td>50 Ω, 75 Ω</td>
<td>1.30 @ 11 GHz</td>
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<td>1.25 @ 4 GHz</td>
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<td><strong>Microminiature</strong></td>
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<tr>
<td>MMCX</td>
<td>6 GHz</td>
<td>50 Ω</td>
<td>1.25 @ 6 GHz</td>
<td>500</td>
<td>-55°C to 155°C</td>
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</tr>
<tr>
<td>SMP</td>
<td>40 GHz</td>
<td>50 Ω</td>
<td>1.1 @ 23 GHz, 1.15 @ 23–26 GHz, 1.40 @ 26–40 GHz</td>
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<tr>
<td>SSMT/OSMT</td>
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<td>50 Ω</td>
<td>1.40 @ 6 GHz</td>
<td>100</td>
<td>-40°C to 125°C</td>
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</tr>
<tr>
<td>QSL</td>
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<td>50 Ω</td>
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<td>-40°C to 125°C</td>
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<tr>
<td>Compression Coax</td>
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<td>50 Ω</td>
<td>1.25 @ 6 GHz</td>
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<tr>
<td>UMCC</td>
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<td>Switching Coax</td>
<td>2.4 GHz</td>
<td>50 Ω</td>
<td>1.20 @ 2 GHz</td>
<td>30,000</td>
<td>-40°C to 85°C</td>
<td>Snap-On</td>
</tr>
</tbody>
</table>

### Contacts for Multiposition Connectors

| Type C Inserts  | 2 GHz | 50 Ω, 75 Ω | 1.20 @ 2 GHz | 500 | -55°C to 125°C | Pin/Socket |
### 7/16 Connectors

Designed for high power applications where a more rugged interface is required.

**General Applications**
- Cellular base stations
- Control components
- Antenna broadcast applications

**Product Offering**
- Straight plugs and jacks
- Elbow plugs
- Crimp and solder contacts
- Panel and bulkhead jacks
- Silver and white bronze plating to reduce intermodulation

**Performance Specifications**
- Frequency: DC to 7 GHz
- Impedance: 50 ohms
- VSWR: 1.02 + 0.03f
- Durability: 500 cycles
- Temperature Rating: -55°C to +155°C
- Intermateable per CECC 22 190 and IEC 168-4

#### Cable-Applied Crimp Connectors
- Screw-Mount Jack 619455-1
- Screw-Mount Plug 619456-1
- Panel Plug 1460052-2

*Please visit [www.te.com](http://www.te.com) for more part numbers.*

### N Series Connectors

Medium sized connector for high-voltage applications. Highly suited for critical applications and environments.

**General Applications**
- High-performance connector for cellular and PCS base stations, telephony and broadcast applications
- Cable-to-cable, and cable-to-panel, semi-rigid and flexible cable options

**Product Offering**
- RG plug and jack
- Semi-rigid cable and RG/RD cable
- Panel and bulkhead jack
- PCB mount

**Performance Specifications**
- Frequency: DC to 11 GHz
- Impedance: 50 ohm
- Durability: 500 cycles
- Temperature Rating: -65°C to +165°C for military type
  - 55°C to +85°C for commercial
- Designated connectors meet the requirements of MIL-PRF-39012,
  IEC 169-16 and CECC 22 210

#### Cable-Applied Crimp Connectors
- Bulhead Jack 1-137625-0
- Panel Jack 1-1478212-0
- Straight Plug 1-1337416-0
- Right-Angle Plug 225014-3
- Panel Plug, Military 1057275-1

#### Cable-Applied Solder Connectors
- Straight Solder Jack 1-137406-0

*Please visit [www.te.com](http://www.te.com) for more part numbers.*

### BNC Connectors

Miniature connector series ideally suited for CATV applications.

**General Applications**
- Broadband, networking, signal management
- Video distribution, including HDTV
- Industry standard interface, commercial and military aerospace

**Product Offering**
- Cable Applied: Hex and O crimp, solder/clamp for flex cable
- PCB: vertical or right angle; through hole, compliant pin, press fit or surface mount
- PBT body or all-metal body
- Solder receptacles
- Adapters

**Performance Specifications**
- Operating Frequency: DC to 4 GHz (50 ohms)
  - DC to 2 GHz (75 ohms)
- Nominal Impedance: 50 and 75 ohms
- VSWR (Max.): 1.30 @ 4 GHz (50 ohms)
  - 1.30 @ 4 GHz (50 ohms)
  - Durability: 500 cycles
  - Temperature Rating: -55°C to +165°C military
  - 55°C to 85°C commercial

#### Board-Mount SMT Connectors
- Right-Angle Jack 5413879-1
- Vertical Jack 5-1634503-1
- Right-Angle Jack, 75 ohms 5413558-1

#### Cable-Applied Crimp Connectors
- Twin Bulkhead Jack, 75 ohms 5332342
- Twin Bulkhead Plug, 75 ohms 5332225-5
- Straight Plug 5225395-7

*Please visit [www.te.com](http://www.te.com) for more part numbers.*

te.com/products/rfcoax
MINI BNC CONNECTORS

Smaller version of the popular BNC series, allowing 40% more connections in the same area as standard BNC connector.

General Applications
- Telecommunications and broadband applications
- Instrumentation, computers/LANs
- Base stations
- Telco DS3 networks

Product Offering
- Straight and right angle plugs and jacks
- Flexible cable
- PCB jack and bulkhead jack
- Stacked PCB receptacles

Performance Specifications
- Operating Frequency: DC to 2 GHz
- Nominal Impedance: 75 ohms
- VSWR (Max.): 1.16 to 1 GHz
- Durability: 500 cycles
- Temperature Rating: -40°C to +85°C

TNC CONNECTORS

Miniature connector with threaded coupling. Highly suited for critical applications and environments.

General Applications
- High-vibration/low-noise, antenna, and test & measurement

Product Offering
- Cable Applied: Hex and O crimp, solder/clamp for flexible cable, crimp of solder for semi-rigid cable
- PCB: Vertical or right angle, with PBT or all-metal body
- Solder receptacles
- Adapters

Performance Specifications
- Operating Frequency: DC to 11 GHz (50 ohms)
  DC to 2 GHz (75 ohms)
- Nominal Impedance: 50 and 75 ohms
- VSWR: 1.30 @ 11 GHz (50 ohms)
- Durability: 500 cycles
- Temperature Rating: -65°C to +165°C military
  -55°C to +85°C commercial

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<td>Bulkhead Jack</td>
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Please visit [www.te.com](http://www.te.com) for more part numbers.
F AND G SERIES CONNECTORS

Miniature connector series ideally suited for CATV applications.

**General Applications**
- Broadband, CATV
- Line amplifiers, multiport taps
- Cable modems

**Product Offering**
- Cable Applied: Crimp (plugs or bulkhead jacks)
- PCB: Vertical or right angle, through hole and surface mount
- Edge-mount bulkhead solder jack
- Adapters
- Splash resistant and sealed versions available
- F Series: threaded coupling
- G Series: Quick-lock coupling

**Performance Specifications**
- Operating Frequency: DC to 1 GHz (specific designs support up to 2GHz)
- Nominal Impedance: 75 ohms
- VSWR: 1.10–1.30
- Durability: 600 cycles
- Temperature Rating: -55°C to +85°C
- Designs compliant with SCTE & UL/CSA standards

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<th>Part Number</th>
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Please visit [www.te.com](http://www.te.com) for more part numbers.

SMA CONNECTORS

Subminiature connector with threaded coupling designed for performance through 18 GHz.

**General Applications**
- Wireless base stations (CDMA, TDMA, PCS)
- Satellite communications/mini cell
- Test and measurement/aerospace

**Product Offering**
- PCB: Through hole, compliant pin, surface mount, edge mount
- Cable applied: hex crimp, solder and clamp for flex cable, solder, clamp and compression crimp for semi-rigid cable
- Solder receptacles
- Adapters (in series and between series)

**Performance Specifications**
- Operating Frequency: Up to 26.5 GHz (Most are 12.4 to 18 GHz)
- Nominal Impedance: 50 ohms
- VSWR (Max.): 1.20 @ 11 GHz
- Durability: 500 cycles
- Temperature Rating: -65°C to +165°C
- Meets all performance requirements for MIL-PRF-39012

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Please visit [www.te.com](http://www.te.com) for more part numbers.

[te.com/products/rfcoax](http://te.com/products/rfcoax)
QMA CONNECTORS

Subminiature connector with quick lock coupling designed for performance through 18 GHz.

General Applications
- Wireless base stations
- Distributed antenna systems (DAS)
- Satellite communications/mini cell

Product Offering
- Intermateable with QLF (competitive) QMA products
- Cable and PCB versions available
- Brass body, nickel plated
- Center contact: beryllium copper, gold plated
- Force to engage: 27 N (6 lb.)
- Force to disengage: 20 N (4.5 lb.)

Performance Specifications
- Frequency: DC to 6 GHz
- Impedance: 50 ohms
- VSWR (Max.): 1.15 @ 6 GHz
  1.22 for right angle
- Durability: 100 cycles
- Temperature Rating: -40°C to +125°C

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Please visit www.te.com for more part numbers.

SMB/TYPwE 43 CO'NECTORS

Subminiature series connectors with snap-on coupling. Smaller alternative to SMA.

General Applications
- GPS
- Telephony
- CATV

Product Offering
- Cable and PCB
- Brass and zinc die cast shells
- Mini 75-ohm SMB same size as 50-ohm SMB

Performance Specifications
- Frequency: DC to 4 GHz
- Impedance: 50 and 75 ohms
- VSWR: 1.20 up to 4 GHz
- Durability: 500 cycles
- Temperature Rating: -65°C to +165°C

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<tr>
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<tr>
<td>Straight Jack</td>
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Please visit www.te.com for more part numbers.
OSP/OSSP CONNECTORS

Modular blindmate series with interface designed for multiple interconnects.

General Applications
- Module to module
- Module to motherboard
- Rack and panel

Product Offering
- Plug and receptacles (rigid and float mount)
- Panel, flange and cable mount
- Semi-rigid and flexible cable
- PCB mount
- Adapters
- Hermetic

Performance Specifications
- Operating Frequency: 22 GHz OSP
  28 GHz OSSP
- Nominal Impedance: 50 ohms
- VSWR (Max.): 1.25 OSP
  1.33 OSSP
- Durability: 5000 cycles (OSP)
  1000 cycles (OSSP)
- Temperature Rating: -65°C to +125°C

DIN COAX 1.0/2.3 CONNECTORS

Connector series for high density board-to-board and I/O connections.

General Applications
- High density board-to-board and I/O connections
  on transmission, access, mobile and data communication equipment

Product Offering
- Different styles with screw, slide-in and latching (quick lock) coupling
- Cable, THT and press-in termination
- Full crimp cable termination
- SMT multicontact (see Siemax)
- Adapters to Series 1.6/5.6

Performance Specifications
- Nominal Impedance: 50 or 75 ohms
- Operating Frequency: Up to 10 GHz (50-ohm connectors)
  Up to 2 GHz (75-ohm connectors)
- VSWR (Max.): 1.35 up to 10 GHz (50-ohm connectors)
  1.20 up to 2 GHz (75-ohm connectors)
- Durability: 500 cycles
- Temperature Rating: -40°C to +85°C
- Interface: Snap-On (IEC 169-29 and CECC 222000)

<table>
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<tr>
<th>Board-Mount Connectors</th>
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<td>Vertical Jack, OSP</td>
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<tr>
<td>Vertical Plug, OSP</td>
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<tbody>
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<td>1059402-1</td>
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<tr>
<td>Straight Jack, OSP</td>
<td>1059540-1</td>
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<tr>
<td>Straight Plug, OSSP</td>
<td>1059857-1</td>
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<tr>
<td>Straight Jack, OSSP</td>
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</tr>
</tbody>
</table>

Please visit www.te.com for more part numbers.

Please visit www.te.com for more part numbers.
DIN COAX 1.6/5.6 CONNECTORS

High-performance version of DIN 1.0/2.3 connector series. Highly suitable for transmission of high bit rates.

General Applications
- Used primarily as I/O connector in transmission and access equipment outside USA; used in USA for export businesses

Product Offering
- Screw, snap-on, slide-in and latching (quick lock) coupling
- Full crimp and IDC cable termination
- Board lock and standard THT termination
- Press In termination
- Adapters to Series 1.0/2.3 and BNC (both 75 ohm)

Performance Specifications
- Operating Frequency: Up to 8 GHz
- Nominal Impedance: 75 ohms
- VSWR (max.): 1.20
- Durability: 500 cycles
- Temperature Rating: -40°C to +85°C
- Interface: CECC 22240

<table>
<thead>
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<th>Board-Mount Connectors</th>
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<tr>
<td>Right-Angle Jack</td>
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<tr>
<td>Right-Angle Plug</td>
<td>1-1393680-6</td>
</tr>
</tbody>
</table>

Please visit www.te.com for more part numbers.

SIEMAX CONNECTORS

Surface mount multi coax connector designed for high-density board-to-board and board-to-cable applications.

General Applications
- PCB connector in SMT, for I/O and board-to-board application in communications and automotive
- Interfaces DIN 1.0/2.3

Product Offering
- Jacks, Series 1.0/2.3, 75 ohms

Performance Specification (Series 1.0/2.3):
- Operating Frequency: Up to 2 GHz
- Nominal Impedance: 75 ohms
- VSWR (Max.): 1.20 @ 2 GHz
- Durability: 250 cycles
- Temperature Rating: -40°C to +85°C

<table>
<thead>
<tr>
<th>Board-Mount Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-Angle Jack, 2 Port</td>
</tr>
<tr>
<td>Right-Angle Jack, 3 Port</td>
</tr>
</tbody>
</table>

Please visit www.te.com for more part numbers.
Snap on subminiature connector series. Smaller alternative to SMB.

**General Applications**
- GPS, automotive and wireless communication
- Handheld devices: pagers, PCs, cellular phones, tablets

**Product Offering**
- Snap on connector 30% smaller than SMB
- Cable-to-cable and cable-to-PCB versions, straight and right angle
- Brass and zinc die-cast shells available
- Gold- and nickel-plated shell and outer contact options available

**Performance Specification**
- Operating Frequency: DC to 6 GHz
- Nominal Impedance: 50 ohms
- VSWR (Max.): 1.25 @ 3 GHz
  1.35 @ 6 GHz
- Durability: 500 cycles
- Temperature Rating: -65°C to +165°C
- Interface Snap-On (MIL-PRF-39012 and CECC 22220)

35% smaller than MCX, this connector series is used in board-to-board and cable-to-board applications where space is a driving issue.

**General Applications**
- Instrumentation
- Handheld devices: pagers, PCs, cellular phones, tablets

**Product Offering**
- Cable-to-cable and cable-to-PCB versions, straight and right angle
- Crimp, solder, and surface mount
- Tape and reel for high-volume assembly

**Performance Specification**
- Operating Frequency: DC to 6 GHz
- Nominal Impedance: 50 ohms
- VSWR (Max.): 1.25:1 @ 6 GHz
- Durability: 500 cycles
- Temperature Rating: -55°C to +155°C
- Interface: Snap-On (CECC 22340)

<table>
<thead>
<tr>
<th>Board-Mount SMT Connectors</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Plug</td>
<td>1075221-1</td>
</tr>
<tr>
<td>Right-Angle Jack</td>
<td>1337586-2</td>
</tr>
<tr>
<td>Vertical Jack</td>
<td>1060985-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable-Applied Crimp Connectors</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Plug</td>
<td>1-1337580-0</td>
</tr>
<tr>
<td>Right-Angle Plug</td>
<td>1-1337584-0</td>
</tr>
<tr>
<td>Straight Bulkhead Jack</td>
<td>1-1337588-1</td>
</tr>
</tbody>
</table>

Please visit [www.te.com](http://www.te.com) for more part numbers.
Microminiature surface mount cable assembly system designed to provide the performance of much larger industry-standard connectors.

**General Applications**
- Wireless communication applications, Base Stations, antenna and hand held devices
- Designed for use with many standard interfaces (i.e., SMA, SMB, MCX, MMCX, BNC)

**Product Offering**
- Mated height off PC: SSMT: 2.8 mm
  OSMT: 3.1 mm
- Assortment of cable configurations available including intra-RF series assemblies
- Available with both high-temp and standard PVC cable

**Performance Specifications**
- Operating Frequency: DC to 6 GHz
- Nominal Impedance: 50 ohms
- VSWR (Max.): 1.40:1 @ 6 GHz
- Durability: 100 cycles
- Temperature Rating: -40°C to +125°C

<table>
<thead>
<tr>
<th>Board-Mount Connectors</th>
<th>Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSMT Plug, Reel and Tape Mounted, Brass Body</td>
<td>1055689-1</td>
</tr>
<tr>
<td>OSMT Plug, Brass Body</td>
<td>1055687-1</td>
</tr>
<tr>
<td>OSMT Plug, Polyphenylene Body</td>
<td>1055690-1</td>
</tr>
</tbody>
</table>

Please visit [www.te.com](http://www.te.com) for more part numbers.

Low-profile multiport RF connector interface connector with push/pull mating.

**General Applications**
- Wireless communication systems
- Mobile antennas, GPS
- Automotive telematics
- Computers

**Product Offering**
- Surface mount compatible, panel mount
- 1 x 3 ports configuration
- Cable plugs can be keyed for security applications
- 3-port configuration uses less space than typical SMA, QMA, or other PCB product types on a board layout

**Performance Specifications**
- Frequency: DC to 6 GHz
- Impedance: 50 ohms
- VSWR (Max.): 1.3 max @ 3 GHz
  1.5 max to 6 GHz
- Durability: 250 cycles
- Temperature Rating: -40°C to +125°C
- Engagement Force: 30 N (6.7 lb.) max.

<table>
<thead>
<tr>
<th>Board-Mount Through-Hole Connectors, Right Angle</th>
<th>Product Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Port Jack with Flanges</td>
<td>1274824-2</td>
</tr>
<tr>
<td>3-Port Jack without Flanges</td>
<td>2016032-1</td>
</tr>
</tbody>
</table>

Please visit [www.te.com](http://www.te.com) for more part numbers.
SWITCHING COAX CONNECTORS FOR MOBILE PHONE (CONSUMER)

Mobile phone connector, which provides signal switching function between internal phone antenna and external car antenna.

General Applications
• Mobile handsets
• Diagnostic test

Product Offering
• SMD switching connector family with three main heights: 3.5, 4.5 and 6.0 mm
• SMD switching connector with direct contact to the phone antenna
• Right-angle cable plugs for RG-174 cable
• Excellent signal transmission due to short distance between power elements and antenna or switch, no internal cables

Performance Specifications
• Operating Frequency: Up to 2.4 GHz
• Nominal Impedance: 50 ohms
• VSWR (Max.): 1.15:1 @ 1 GHz
  <1.20:1 @ 2 GHz
• Insertion Loss: -0.30 dB max. @ 2 GHz
• Durability: 30,000 cycles
• Temperature Rating: -40°C to +85°C

COAXIAL INSERTS (TYPE C)

High current inserts for board-to-board applications.

General Applications
• With low-frequency connectors Siedecon, DIN 41612 (Style M)
• Z-PACK connectors

Product Offering
• Cable, THT and press-in termination
• SMT “pin through paste” termination
• Full crimp cable termination
• Adapters to Series SMA and 1.6/5.6
• High-current contacts also available
• Compatible with Eurocard, Siedecon, Z-PACK and HM connectors

Performance Specifications
• Operating Frequency: Up to 2 GHz
• Nominal Impedance: 50 or 75 ohms
• VSWR (Max.): 1.20 up to 2GHz
• Durability: 500 cycles
• Temperature Rating: -55°C to +125°C
• Meets requirements of DIN 41626 and CECC 22330

Board-Mount Connectors (50 Ohms)

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-Angle Pin</td>
<td>5148386-1</td>
</tr>
<tr>
<td>Vertical Socket</td>
<td>5148385-1</td>
</tr>
</tbody>
</table>

Cable-Applied Crimp Connectors (50 Ohms)

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Jack</td>
<td>1392020-1</td>
</tr>
</tbody>
</table>

Please visit www.te.com for more part numbers.

BETWEEN SERIES ADAPTERS

• Cost effective solution for those applications requiring the mating of two separate RF interfaces
• Performance limited to the RF interfaces used, but adapter designs provide a minimum length consistent with good electrical performance
• Applications include communications equipment of all types, in-house test and measurement
Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.te.com/leadfree