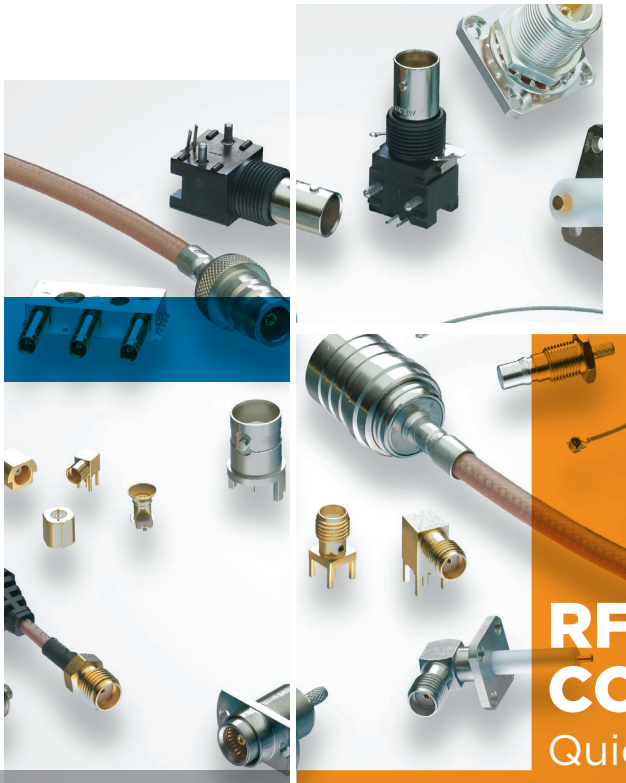




# RF COAXIAL CONNECTORS

Quick Reference Guide

## Coaxial RF Products: Quick View

| Product                               | Operating Frequency (Max.) | Impedance                  | VSWR                                                 | Durability (Mating Cycles) | Operating Temperature                                | Coupling Style                  |
|---------------------------------------|----------------------------|----------------------------|------------------------------------------------------|----------------------------|------------------------------------------------------|---------------------------------|
| Standard                              |                            |                            |                                                      |                            |                                                      |                                 |
| 4.3-10                                | 6 GHz                      | 50 $\Omega$                | 1.03 up to 4 GHz,<br>1.06 @ 4 GHz to 6 GHz           | 100                        | -40°C to 85°C                                        | Screw                           |
| 7/16                                  | 7 GHz                      | 50 $\Omega$                | 1.02 + 0.03f up to 7 GHz                             | 500                        | -55°C to 155°C                                       | Thread                          |
| N                                     | 11 GHz                     | 50 $\Omega$                | 1.3 @ 11 GHz                                         | 500                        | -55°C to 85°C Commercial;<br>-65°C to 165°C Military | Thread                          |
| Miniature                             |                            |                            |                                                      |                            |                                                      |                                 |
| BNC                                   | 4 GHz                      | 50 $\Omega$ , 75 $\Omega$  | 1.3 @ 4 GHz                                          | 500                        | -55°C to 85°C                                        | Bayonet                         |
| Mini BNC                              | 2 GHz                      | 75 $\Omega$                | 1.16 @ 1 GHz                                         | 500                        | -40°C to 85°C                                        | Bayonet                         |
| TNC                                   | 11 GHz                     | 50 $\Omega$ , 75 $\Omega$  | 1.30 @ 11 GHz                                        | 500                        | 55°C to 85°C Commercial;<br>-65°C to 165°C Military  | Thread                          |
| F and G Series                        | 1 GHz                      | 75 $\Omega$                | 1.10-1.30                                            | 600                        | -55°C to 85°C                                        | Thread                          |
| Subminiature                          |                            |                            |                                                      |                            |                                                      |                                 |
| SMA                                   | 26 GHz                     | 50 $\Omega$                | 1.2 @ 11 GHz<br>Dependent on Cable Type              | 500                        | -65°C to 165°C                                       | Thread                          |
| QMA                                   | 6 GHz                      | 50 $\Omega$                | 1.15 @ 6 GHz                                         | 100                        | -40°C to 125°C                                       | Snap-On                         |
| SMB                                   | 4 GHz                      | 50 $\Omega$ , 75 $\Omega$  | 1.25 + 0.04f up to 4 GHz                             | 500                        | -65°C to 165°C                                       | Snap-Fit                        |
| OSP                                   | 22 GHz                     | 50 $\Omega$                | 1.25 @ 22 GHz                                        | 5000                       | -65°C to 125°C                                       | Blindmate Push-On               |
| OSSP                                  | 28 GHz                     | 50 $\Omega$                | 1.33 @ 28 GHz                                        | 1000                       | -65°C to 125°C                                       | Blindmate Push-On               |
| DIN 1.0/2.3                           | 10 GHz<br>2 GHz            | 50 $\Omega$<br>75 $\Omega$ | 1.35 @ 10 GHz<br>1.20 @ 2 GHz                        | 500                        | -40°C to 85°C                                        | Screw, Slide-In, and Quick Lock |
| DIN 1.6/5.6                           | 8 GHz                      | 75 $\Omega$                | 1.20 @ 8 GHz                                         | 500                        | -40°C to 85°C                                        | Screw, Slide-In, and Quick Lock |
| Siemax, DIN 1.0/2.3 Interface         | 5 GHz                      | 75 $\Omega$                | 1.2 @ 1GHz<br>1.4 @ 5GHz                             | 500                        | -40°C to 85°C                                        | Push-On                         |
| MCX                                   | 6 GHz<br>50 $\Omega$       | 1.25 @ 4 GHz               | 1.35 @ 6 GHz                                         | 500                        | -65°C to 165°C                                       | Snap-On                         |
| Microminiature                        |                            |                            |                                                      |                            |                                                      |                                 |
| MMCX                                  | 6 GHz                      | 50 $\Omega$                | 1.25 @ 6 GHz                                         | 500                        | -55°C to 155°C                                       | Snap-On                         |
| SMP                                   | 40 GHz                     | 50 $\Omega$                | 1.1 @ 23 GHz<br>1.15 @ 23-26 GHz<br>1.40 @ 26-40 GHz | 100                        | -65°C to 165°C                                       | Push-On                         |
| SSMT/OSMT                             | 6 GHz                      | 50 $\Omega$                | 1.40 @ 6 GHz                                         | 100                        | -40°C to 125°C                                       | Snap-On                         |
| QSL                                   | 6 GHz                      | 50 $\Omega$                | 1.3 @ 3 GHz<br>1.5 @ 6 GHz                           | 250                        | -40°C to 125°C                                       | Push-Pull                       |
| Compression Coax                      | 6 GHz                      | 50 $\Omega$                | 1.25 @ 6 GHz                                         | 25                         | -40°C to 125°C                                       | Surface Mount                   |
| UMCC                                  | 6 GHz                      | 50 $\Omega$                | 1.3 @ 3 GHz<br>1.4 @ 3-6 GHz                         | 30                         | -40°C to 90°C                                        | Snap-On                         |
| Switching Coax                        | 2.4 GHz                    | 50 $\Omega$                | 1.20 @ 2 GHz                                         | 30,000                     | -40°C to 85°C                                        | Snap-On                         |
| Contacts for Multiposition Connectors |                            |                            |                                                      |                            |                                                      |                                 |
| Type C Inserts                        | 2 GHz                      | 50 $\Omega$ , 75 $\Omega$  | 1.20 @ 2 GHz                                         | 500                        | -55°C to 125°C                                       | Pin/Socket                      |

### 4.3-10 Connectors



Standard connectors and cable assemblies are smaller, lighter weight and provide better PIM performance for use in many rugged outdoor applications.

#### GENERAL APPLICATIONS

- Distributed Antenna Solutions (DAS)
- Mobile Network Equipment
- Small Cell Equipment
- Base Transceiver Station (BTS)
- Antenna and Remote Radio Unit (RRU)

#### PRODUCT OFFERING

- Straight and right angle connectors
- Straight and right angle cable assemblies

#### PERFORMANCE SPECIFICATIONS

- Frequency: DC to 6 GHz
- Impedance: 50 ohm
- Intermodulation level (PIM): 60 dB @ 2 x 40W (46dBm)
- Durability: 100 mating cycles
- Reliable electrical performance meeting IEC 61169-51
- Moisture protection meeting IP68

#### Cable-Applied Connectors

|                  |           |
|------------------|-----------|
| Straight Plug    | 2081967-1 |
| Right-Angle Plug | 2081969-1 |

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

#### Cable Assemblies

|                         |           |
|-------------------------|-----------|
| Straight to Straight    | 2081975-1 |
| Straight to Right-Angle | 2081976-1 |

### 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
- VSWR (Max.):
  - 1.3:1 for straight plug or jack
  - 1.35 up to 9 GHz 1.5 @ 9 to 11 GHz for right-angle plug
- 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

|                      |             |
|----------------------|-------------|
| Bulkhead Jack        | 1-1337625-0 |
| 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 | 1-1337406-0 |
|----------------------|-------------|

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)
- Durability: 500 cycles
- Temperature Rating:
  - 65°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.

### 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

| Board-Mount Connectors         |           |
|--------------------------------|-----------|
| Vertical Jack                  | 1274571-1 |
| Right-Angle Bulkhead Jack      | 1274584-1 |
| Right-Angle Jack               | 1274572-1 |
| Cable-Applied Crimp Connectors |           |
| Straight Plug                  | 1274563-1 |
| Right-Angle Plug               | 1274566-1 |
| Bulkhead Jack                  | 1274568-1 |

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

### 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

| Board-Mount Connectors       |            |
|------------------------------|------------|
| Right-Angle Jack             | 5227818-1  |
| Cable-Applied Connectors     |            |
| Straight Plug, Crimp         | 5222506-5  |
| Right-Angle Plug, Crimp      | 1-225554-1 |
| Straight Jack, Crimp         | 5414171-3  |
| Straight Jack, Solder        | 1057676-1  |
| Straight Jack, Panel, Solder | 1057775-1  |

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

| F Series                           |             |
|------------------------------------|-------------|
| Straight Plug, Crimp               | 5-1814821-1 |
| Straight Plug, Crimp, RG-179 Cable | 5415226-1   |
| Bulkhead Jack, Crimp               | 5-1814826-1 |
| Right-Angle PCB Mount Jack         | 5-1634540-1 |
| G Series                           |             |
| Vertical PCB-Mount Jack            | 5415332-1   |
| Vertical PCB-Mount Plug            | 6274045-1   |

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
- Dependent on termination method
- Durability: 500 cycles
- Temperature Rating: -65°C to +165°C
- Meets all performance requirements for MIL-PRF-39012

| Board-Mount Connectors               |             |
|--------------------------------------|-------------|
| Vertical Jack                        | 5-1814832-2 |
| Right-Angle Jack                     | 5-1814400-2 |
| Right-Angle Jack, Edge Mount         | 2081005-1   |
| Vertical Jack, PIP, High Performance | 2081170-1   |
| Cable-Applied Crimp Connectors       |             |
| Right-Angle Plug, RG-316 Cable       | 3-1478978-1 |
| Straight Plug, RG-316 Cable          | 1-1337482-0 |

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



### 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

- Intermatable 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

#### Board-Mount Connectors

|                       |           |
|-----------------------|-----------|
| Right-Angle Jack, SMT | 1408463-1 |
| Right-Angle Jack      | 1408337-1 |
| Vertical Jack         | 2081026-1 |

#### Cable-Applied Crimp Connectors

|                                |           |
|--------------------------------|-----------|
| Right-Angle Plug, RG-402 Cable | 1408347-1 |
| Straight Jack, RG-58 Cable     | 1408338-7 |

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

### SMB/TYPE 43 Connectors



**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

#### Board-Mount Surface-Mount-Compatible Connectors

|                  |             |
|------------------|-------------|
| Right-Angle Plug | 5414338-1   |
| Vertical Jack    | 1-1337482-0 |
| Right-Angle Jack | 1-1337481-0 |

#### Cable-Applied Crimp Connectors

|                        |             |
|------------------------|-------------|
| Straight Plug          | 1-1337597-0 |
| Right-Angle Elbow Plug | 1-1337478-0 |
| Straight Jack          | 1-1337477-0 |

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

## RF Coaxial Connectors

### Quick Reference Guide

#### 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

| Board-Mount Connectors         |           |
|--------------------------------|-----------|
| Vertical Jack, OSP             | 1059681-1 |
| Vertical Plug, OSP             | 1059684-1 |
| Cable-Applied Crimp Connectors |           |
| Straight Plug, OSP             | 1059402-1 |
| Straight Jack, OSP             | 1059540-1 |
| Straight Plug, OSSP            | 1059857-1 |
| Straight Jack, OSSP            | 1059868-1 |

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

#### 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)

| Board-Mount HD Connectors                |             |
|------------------------------------------|-------------|
| Straight Bulkhead Jack, Slide-In         | 3-1393670-4 |
| Straight Bulkhead Jack, Snap-On, 75 Ohms | 8-1393670-3 |
| Right-Angle Bulkhead Jack                | 1274544-1   |
| Cable-Applied Crimp Connectors           |             |
| Right-Angle Plug, Snap-On                | 1460817-1   |

Please visit [www.te.com](http://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)

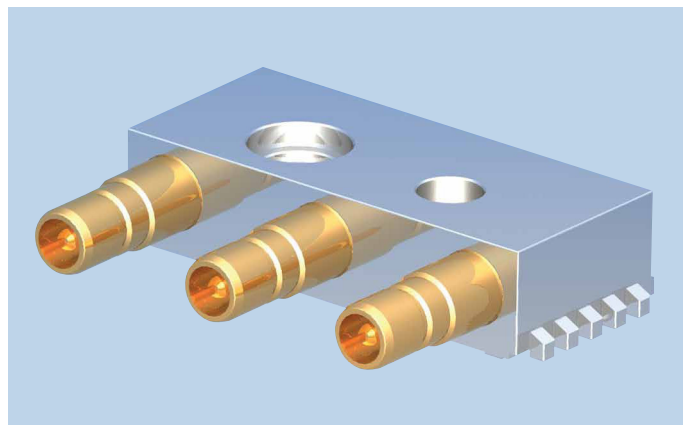
#### PERFORMANCE SPECIFICATIONS

- 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

| Board-Mount Connectors         |             |
|--------------------------------|-------------|
| Right-Angle Jack               | 2-1393681-2 |
| Cable-Applied Crimp Connectors |             |
| Straight Jack                  | 1-1393672-4 |
| Right-Angle Jack               | 3-1393680-0 |
| Straight Plug                  | 1393672-3   |
| Right-Angle Plug               | 1-1393680-6 |

Please visit [www.te.com](http://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

| Board-Mount Connectors   |          |
|--------------------------|----------|
| Right-Angle Jack, 2 Port | 619400-1 |
| Right-Angle Plug, 3 Port | 619401-1 |

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



### MCX Connectors



**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)

| Board-Mount SMT Connectors     |             |
|--------------------------------|-------------|
| Vertical Plug                  | 1075221-1   |
| Right-Angle Jack               | 6-1337586-2 |
| Vertical Jack                  | 1060985-1   |
| Cable-Applied Crimp Connectors |             |
| Straight Plug                  | 1-1337580-0 |
| Right-Angle Plug               | 1-1337584-0 |
| Straight Bulkhead Jack         | 1-1337588-1 |

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

### MMCX Connectors



**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

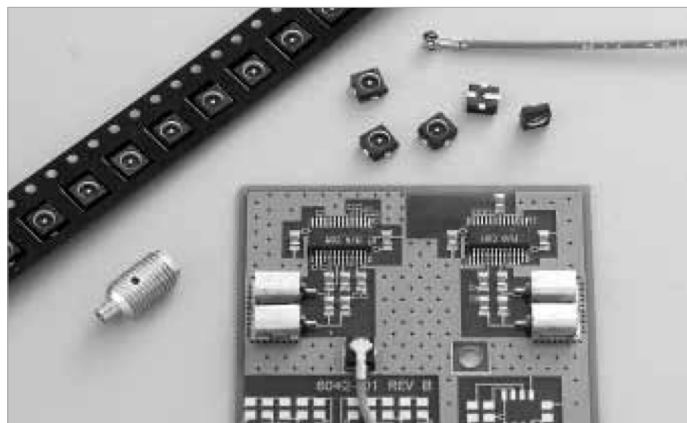
#### PERFORMANCE SPECIFICATION

- 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)

| Board-Mount SMT Connectors     |             |
|--------------------------------|-------------|
| Vertical Plug                  | 1-1634007-0 |
| Right-Angle Jack               | 619285-1    |
| Vertical Jack                  | 1-1634004-0 |
| Cable-Applied Crimp Connectors |             |
| Straight Plug                  | 1-1634001-0 |
| Right-Angle Plug               | 1-1634003-0 |
| Straight Jack                  | 1-1634004-0 |

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

### SMT-OSMT Connectors



**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

#### Board-Mount Connectors

|                                              |           |
|----------------------------------------------|-----------|
| OSMT Plug, Reel and Tape Mounted, Brass Body | 1055689-1 |
| OSMT Plug, Brass Body                        | 1055687-1 |
| OSMT Plug, Polyphenylene Body                | 1055690-1 |

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

### QSL Connectors



**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.

#### Board-Mount Through-Hole Connectors, Right Angle

|                             |           |
|-----------------------------|-----------|
| 3-Port Jack with Flanges    | 1274824-2 |
| 3-Port Jack without Flanges | 2016032-1 |

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)

|                 |           |
|-----------------|-----------|
| Right-Angle Pin | 5148386-1 |
| Vertical Socket | 5148385-1 |

##### Cable-Applied Crimp Connectors (50 ohms)

|               |           |
|---------------|-----------|
| Straight Jack | 1392020-1 |
|---------------|-----------|

Please visit [www.te.com](http://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

### TE TECHNICAL SUPPORT CENTER

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