

Compression Coax Board-to-Board Connectors

Board-to-Board RF Connector Series

- Single connector product
- Surface mount technology
- Excellent price-to-performance ratio

Product Facts

- Single connector design — no mating connectors needed
- Available in four sizes for varied board spacing: 14mm, 10mm, 6.65mm and 4mm
- Large radial and axial misalignment: For positioning both boards and for gap between boards
- Surface Mount Device for standard pick & place compatibility
- Gold plated phosphor bronze and brass contacts, stainless steel springs
- Mating directly on target board
- Easy connection without risk of breaking soldering or connector when mating or unmating
- Low applied material and assembly costs

Applications

- Modular parallel board-to-board blindmate applications
- Base Station / Sub Station systems
- PDA / PCS / Cellular Handset applications
- Wireless Communications systems (GSM, PCS, WCDMA, UMTS)



Specifications

Characteristic Impedance — 50 Ohms

Frequency Range — Up to 6 GHz

Return Loss — -20dB min.; up to 2.2 GHz (all misalignments)

Shielding Effectiveness — -60 dB min.; up to 2.2 GHz

Working Voltage — 125 VAC, 50 Hz (at sea level)

Dielectric Withstanding Voltage — 500 VAC, 50 Hz (at sea level)

Insulation Resistance — 100 Megohms

Operating Temperature — -40 to +125°C

Mating Force — 10 N

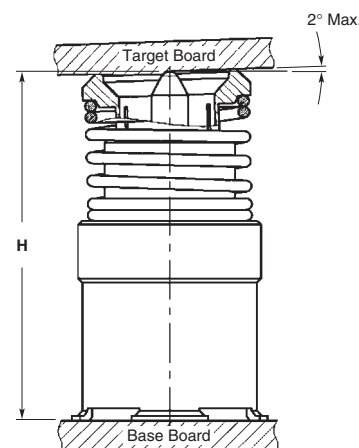
Durability — 25 cycles

Angle Between Boards — $\pm 2^\circ$ max.

Axial Misalignment — ± 1.0 mm from nominal boards stacking height; ± 0.4 mm, ± 0.3 mm for shortest models (Part Numbers 619135 and 1658260)

Radial Misalignment — ± 0.8 mm from center line in any direction

Vibration — 20 g between 58-500 Hz (Const. amplitude of 1.5 mm between 10-58 Hz)



Part Number	Height "H"
619127-1	14 $\pm$ 1.0mm
619134-1	10 $\pm$ 1.0mm
619135-1	6.65 $\pm$ 0.4mm
1658260-1	4 $\pm$ 0.3mm

Related Product Data

Internet — <http://tycoelectronics.com/products/rfcoax>

Product Specification/Design Objectives — 108-71060

Test Report — 501-90021

Sample Kit — 1-1773441-3

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.