

# Compression Coax Board-to-Board RF Connector

Revised 04/06 1-1773441-2

## DESCRIPTION

### Board-to-Board RF Connector Series

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

## APPLICATIONS

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

## KEY FEATURES

- 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

**New product**

## FOR MORE INFORMATION

### Internet

<http://www.tycoelectronics.com/products/rfcoax>

### Technical Support Center

Phone: 1-800-522-6752

**Product Specification/Design Objectives:** 108-71060

**Test report:** 501-90021

**Sample kit:** 1-1773441-3

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## 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)	
Diel. 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:	± 2° max	
Axial Misalignment:	± 1.0mm	from nominal boards stacking height
	± 0.4mm, ± 0.3mm	for shortest models (P/Ns 619135 and 1658260)
Radial Misalignment:	± 0.8mm	from center line in any direction
Vibration:	20 g between 58-500 Hz	(Const. amplitude of 1.5 mm between 10-58 Hz)

## PART NUMBERS

### 4 Versions:

Part Number	Height "H"
619127-1	14 ± 1.0mm
619134-1	10 ± 1.0mm
619135-1	6.65 ± 0.3mm
1658260-1	4 ± 0.3mm

