

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

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 **EMEA Product Manager – Patrick Duquerroy** Phone: (49) 6182-4538 E-mail: pduquerroy@tycoelectronics.com

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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 | <u>Height "H"</u> |
|-------------|-------------------|
| 619127-1 | 14 ± 1.0mm |
| 619134-1 | 10 ± 1.0mm |
| 619135-1 | 6.65 ± 0.3mm |
| 1658260-1 | 4 ± 0.3mm |
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