

ERFV COAX CONNECTORS

ENABLING NEXT-GENERATION 5G WIRELESS SOLUTIONS

TE Connectivity's new ERFV coax connectors are designed with the advent of 5G in mind. These RF products enable board-to-board and board-to-filter applications at a lower cost due to their one-piece compressive design.

Key Benefits

- Lower cost solution with one-piece design
- Proven reliability with excellent misalignment tolerance, insertion loss and return loss
- High customization with range of between-board heights and connector configurations

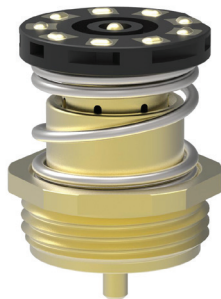
Key Applications

- Mobile telecommunications
- Wireless communications
- Antenna and RF designs
- Small cell

Board-to-Board



Board-to-Filter, Screw Type



Board-to-Filter, Push-In Type



Test Adapters



Electrical Performance

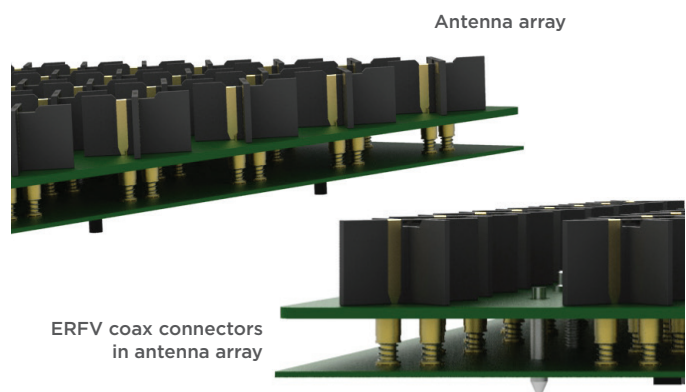
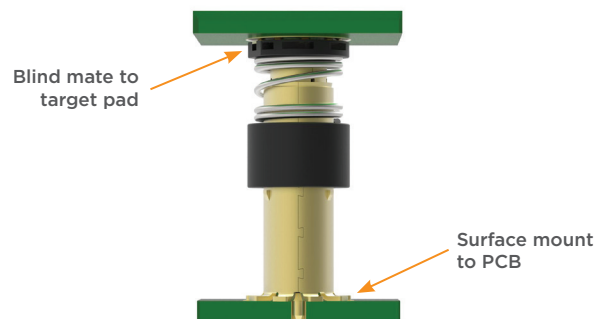
- Frequency range: DC to 10 GHz
- Return loss: ≥ 22 dB @ 4 GHz; ≥ 20 dB @ 6 GHz
- Crosstalk or isolation: ≥ 70 dB @ DC to 3 GHz; ≥ 60 dB @ 3 GHz to 6 GHz

Mechanical Performance

- Minimum board-to-board distance: 5.2mm - 20mm
- Pitch: 15mm typical
- Axial tolerance: +/- 1mm
- Radial tolerance: +/- 0.80mm
- Target board to base board: max. 2°
- Operating temperature: -40°C to 125°C

Materials

- Center contact: Brass - gold/silver
- Outer contact: Copper alloy
- Dielectric: LCP



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