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THE PERFORMANCE LEADER IN
MICROWAVE CONNECTORS



VERTICAL LAUNCH COMPRESSION-MOUNT PCB CONNECTORS

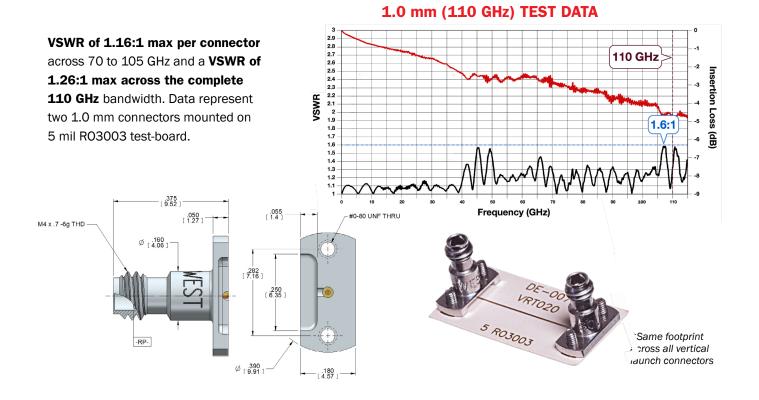


Low VSWR Low Insertion Loss Low RF Leakage High Temperature Rugged & Durable Excellent Repeatability

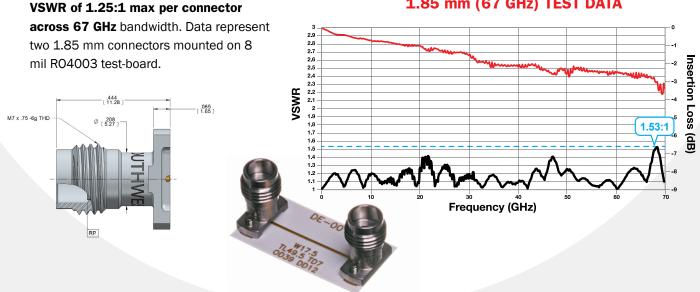
# TOP PERFORMANCE SOLDERLESS CONNECTORS

For microstrip or grounded coplanar waveguide (GCPW) designs, Southwest Microwave vertical launch connectors provide optimal signal integrity, are reusable and can be installed without soldering. Suitable for various board materials and thicknesses, the vertical launch connectors reduce footprint requirements without sacrificing performance, resulting in design and installation convenience.

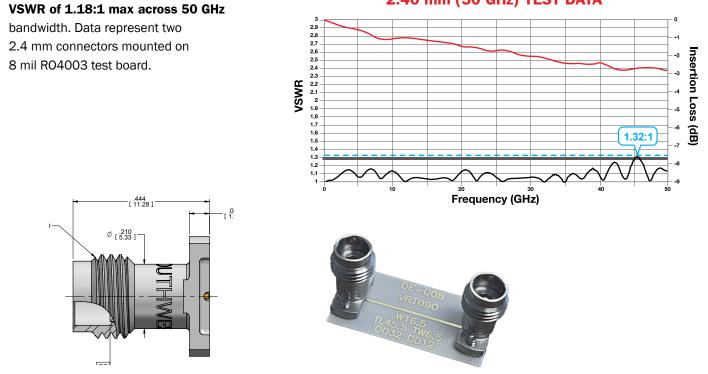
# 1.0 mm (W) DC TO 110 GHz (24359-001J)



### 1.85 mm (V) DC ТΟ GHz (18359-001J)



# 1.85 mm (67 GHz) TEST DATA

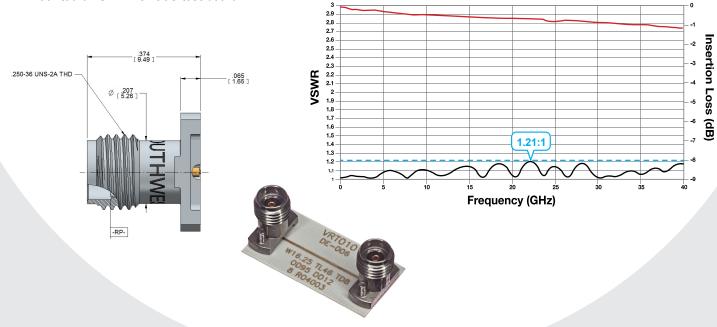


# 2.92 mm (K) DC TO 40 GHz (10359-002J)

### VSWR of 1.095:1 max per connector across

40 GHz. Data represent two 2.92 mm connectors mounted on 8 mil R04003 test-board.





# 2.40 mm (50 GHz) TEST DATA

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# DESIGN ASSISTANCE

- Printed circuit board layout and connector part number recommendation
- 3D models for mechanical layout
- HFSS models (version 18.0 or newer) for EM simulations upon request and availability

### ELECTRICAL

**ENVIRONMENTAL** 

Temperature: -55 to +165 °C

- 1.0 mm: Mode free through 110 GHz 1.85 mm: Mode free through 67 GHz 2.40 mm: Mode free through 50 GHz
- 2.92 mm: Mode free through 40 GHz
- Low VSWR
- · Low RF leakage
- Low insertion loss

# MATERIALS / CONSTRUCTION

- Connector Housing: CRES Alloy UNS S30300 per ASTM A582, Passivated per ASTM A967 Contact: BeCu, UNS C17300 per ASTM B196, Au plated per MIL-G-45204 or ASTM B488 Center Contact Capture: Ultem 1000 per ASTM D5205
- Connector Interface:
- 1.00 mm Per IEC-611696-31
- 1.85 mm Per IEEE-287
- 2.40 mm Per MIL-STD-348, Figs. 324-1 and 324-2
- 2.92 mm Per MIL-STD-348, Figs. 323-1 and 323-2