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## ELECTRICAL

- ▶ Mode free through 110 GHz
- ▶ Low VSWR
- ▶ Low Insertion Loss

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## 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 ASTM B488
- ▶ **Dielectric:** SMA only – PTFE per ASTM D1710
- ▶ **Contact Capture Bead:**
  - SMA - Ultem 1000 per ASTM D5205
  - 2.92 and 2.40 mm - Ultem 1000 per ASTM D5205 and Kel-F per ASTM D1430
  - 1.85 mm – Ultem 1000 per ASTM D5205 and PTFE per ASTM D1710
  - 1.0 mm – Ultem 1000 per ASTM D5205
- ▶ **Connector interfaces:**
  - SMA – per MIL-STD-348, figs. 310-1 and 310-2
  - 2.92 mm – per MIL-STD-348, figs 323-1 and 323-2
  - 2.40 mm – per MIL-STD-348, figs 324-1 and 324-2
  - 1.85 mm – per IEEE 287
  - 1.0 mm – per IEEE 287
- ▶ **Transition Block and clamping plates:** Brass Alloy UNS C36000 per ASTM B16, Ni plated per ASTM 2404B
- ▶ **Transition Pin:** BeCu per UNS C17300 per ASTM B196, Au plate per ASTM B488
- ▶ **Transition Dielectric:** PTFE per ASTM D1710
- ▶ **Connector fasteners:** (4 each): # 0-80 SHCS
- ▶ **Transition block/PCB fasteners:** (2 each): # 1-72 SHCS (2 in lbs max. torque)

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## ENVIRONMENTAL

- ▶ Temperature:
  - SMA -65 to +165 °C
  - 2.92 mm and 2.40 mm -55 to +135 °C
  - 1.85 mm and 1.0 mm -55 to +165 °C