



All dimensions are in inches [mm]

Interface

According to

Rosenberger WSMP™ Interface standards

Material and plating

Connector parts

Body and contact

Material

Kovar® per ASTM F15

Plating

Hard gold, 6µIN [0,15µm] min, over Nickel, 50µIN [1,27 µm] min

Dielectric

Corning 7070 Glass

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Electrical data

| | |
|----------------------------------|--|
| Impedance | 50 Ω |
| Frequency | DC to 65 GHz |
| Return loss (typical)* | ≥ 26 dB, DC to 26.5 GHz ≥ 19 dB, 26.5 to 65 GHz |
| Insertion loss | ≤ 0.12 x √f(GHz) dB |
| Insulation resistance | ≥ 3.5 x10 ³ MΩ |
| Center contact resistance | ≤ 2.0 mΩ |
| Outer contact resistance | ≤ 6.0 mΩ |
| Test voltage (at sea level) | 250 V rms |
| RF High Potential (at sea level) | 150 V rms @ 5 MHz |
| RF-leakage | ≥ -80 dB (typical mated pair) |

*Connector only, return loss in application depends decisively on PCB layout

Mechanical data

| | |
|-------------------------------|-----------------------------|
| Mating cycles | |
| - Full Detent | ≥ 100 |
| - Smooth Bore | ≥ 500 |
| - Ultra Smooth Bore | ≥ 500 |
| Engagement force (typical) | |
| - Full Detent | 2.5 lb _f [11 N] |
| - Smooth Bore | 1.2 lb _f [5.3 N] |
| - Ultra Smooth Bore | 1.0 lb _f [4.5 N] |
| Disengagement force (typical) | |
| - Full Detent | 4.5 lb _f [20 N] |
| - Smooth Bore | 1.0 lb _f [4.5 N] |
| - Ultra Smooth Bore | 1.0 lb _f [4.5 N] |

Environmental data

| | |
|--|--|
| Temperature range | -55°C to +165°C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion | MIL-STD-202, Method 101 |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture resistance | MIL-STD-202, Method 106, except Step 7B |
| Max soldering temperature 2002/95/EC (RoHS) | IEC 61760-1, +500°F [+260°C] for 10 seconds compliant |

Tooling

| | |
|-----------------|-----|
| Extraction tool | N/A |
|-----------------|-----|

Suitable cables

N/A

Packing

Standard

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RF_35/05.10/6.0

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|---|---------|-----------|---------|---|---------------------------|------------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| R. Shirey | 5/18/17 | R. Hosler | 5/18/17 | b00 | Revised per ECN 21-1238 | J. Havener | 6/25/2021 |
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