

FRF27 (Female) Non Magnetic Field Replaceable Connector Series Specifications

Mechanical

| | | MIL-PRF-39012 Reference | IEEE-287 (2.92mm) Reference |
|-----------------------------------|------------|-------------------------|-----------------------------|
| Mating Torque | 9.0 in-lbf | N/A | 2.1.9 |
| Center Conductor Insertion Force | 2.0 lbf | MIL-PRF-39012 / 60D | 2.1.13.2 |
| Center Conductor Withdrawal Force | 1.5 ozf | MIL-PRF-39012 / 60D | 2.1.13.2 |
| Contact Durability | 500 Cycles | 3.15 | 2.1.14 |

Electrical

| | | | |
|-----------------------------|------------------|---------------------|-------------------|
| Maximum Frequency | 27 GHz | N/A | 2.2.7 |
| Impedance | 50Ω Nominal | MIL-PRF-39012 / 60D | 2.1.3 |
| Insulation Resistance | 5,000 MΩ Minimum | 3.11 | N/A |
| Center Conductor Resistance | 3.0 mΩ Maximum | 3.16 | 2.2.3 / 2.2.2.8.5 |
| Outer Conductor Resistance | 2.0 mΩ Maximum | 3.16 | 2.2.3 / 2.2.2.8.5 |

Environmental

| | | | |
|-------------|------------------|---------------------|-------|
| Temperature | -55° C – +105° C | MIL-PRF-39012 / 60D | G.2.3 |
|-------------|------------------|---------------------|-------|

Materials

| | | | |
|------------------|--|--|--|
| Housing | Phosphor Bronze UNS 54400 per ASTM B139, Gold Plated per MIL-DTL-45204, Without Nickel Underplate | | |
| Dielectric | Ultem 1000 Per ASTM D5205 | | |
| Dielectric | Virgin PTFE Fluorocarbon Per ASTM D1710, Type 1, Grade1, Class B | | |
| Center Conductor | BeCu Alloy UNS C17300 Cond. TH04 per ASTM B196, Gold Plated per MIL-DTL-45204, Without Nickel Underplate | | |



**SIGNAL
MICROWAVE**

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| APPROVAL | DATE | DWG NO | REV |
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FILE NAME: 800-027-10511 FRF27 (Female) Series Specification.dft SHEET 1 OF 1