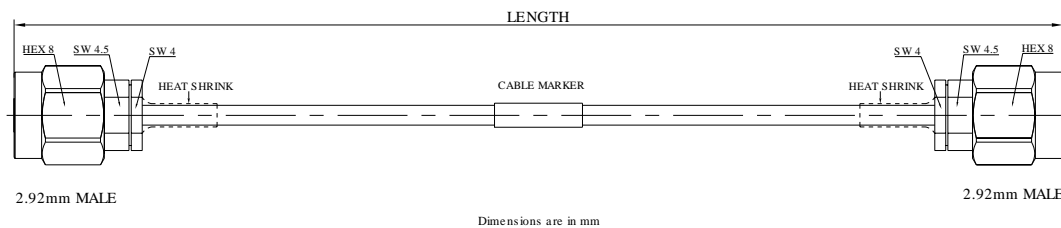


P/N: FRU2-292M292M-XXX

2.92mm Male to 2.92mm Male Cable Assembly | 3506 Series Low Loss Phase Stable Flexible Coax Cable | DC - 40GHz



Connectors Configuration

| | Connector 1 | Connector 2 |
|---------------------------|-----------------|-----------------|
| Connector Series | 2.92mm | 2.92mm |
| Connector Polarity | Standard | Standard |
| Connector Gender | Male | Male |
| Connector Impedance (Ohm) | 50 | 50 |
| Connector Body Style | Straight | Straight |
| Connector Body Material | Stainless Steel | Stainless Steel |
| Connector Body Plating | Passivated | Passivated |

Cable Configuration

| | |
|--------------------------|----------------------------|
| Cable Type | GT3506 flexible cable |
| Cable Impedance (Ohm) | 50 |
| Inner Conductor Material | Silver Plated Copper Wire |
| Dielectric Material | LD-PTFE |
| Number of Shields | 2 |
| Shield Layer 1 Material | Silver Plated Copper Tape |
| Shield Layer 2 Material | Silver Plated Copper Braid |
| Jacket Material | FEP |
| Cable Diameter (mm) | 2.2 |
| Cable Color | Gray |
| Minimum Bend Radius (mm) | 11 |
| Capacitance (pF/m) | 94 |
| Velocity of Propagation | 82% |
| Shielding Effectiveness | < -100dB @ 1GHz |



Electrical Data

| Electrical Specifications for Different Length | | | | |
|------------------------------------------------|-----------------------|------------|--------------------|----------------------------|
| Length (mm) | Length Tolerance (mm) | Frequency | VSWR / Return Loss | Insertion Loss \leq (dB) |
| 100 | ± 3 | DC - 40GHz | 1.35 | 1.12 |
| 150 | ± 3 | | | 1.33 |
| 200 | ± 3 | | | 1.54 |
| 250 | ± 3 | | | 1.82 |
| 300 | ± 5 | | | 2.06 |
| 400 | ± 5 | | | 2.57 |
| 500 | ± 5 | | | 2.98 |
| 600 | ± 5 | | | 3.46 |
| 800 | ± 10 | | | 4.42 |
| 1000 | ± 10 | | | 5.32 |
| 1500 | ± 15 | | | 7.52 |

Environmental Specifications

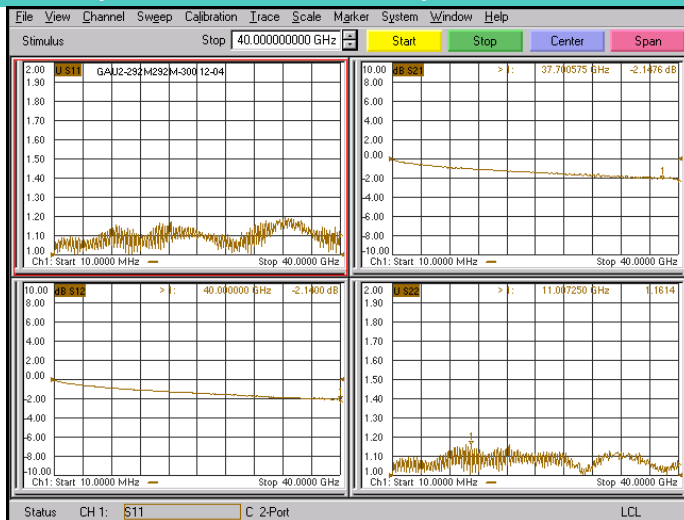
RoHS Compliant

Yes

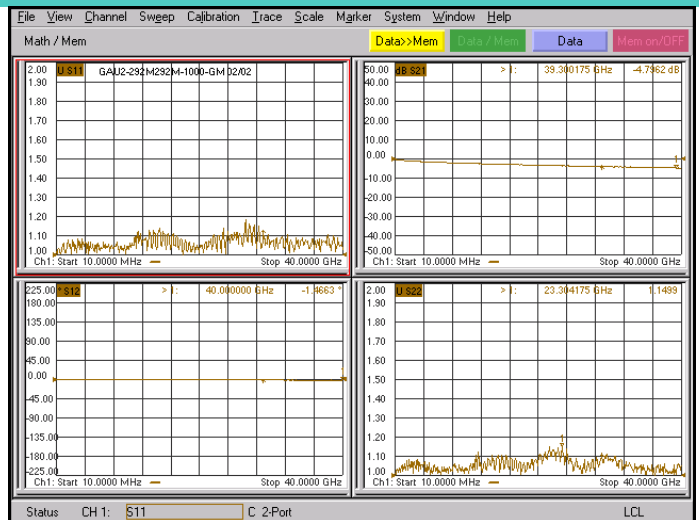
Operating Temperature Range

-55 °C to +125 °C

Test Report for Cable assembly



*Note: Test Cable Assembly Length = 300 mm



*Note: Test Cable Assembly Length = 1000 mm

Revision History

| Version | Description | Prepared By | Approved By | Date |
|---------|-----------------|-------------|-------------|------------|
| V1.0 | Initial release | Grimm | Hebe | 2024-01-01 |