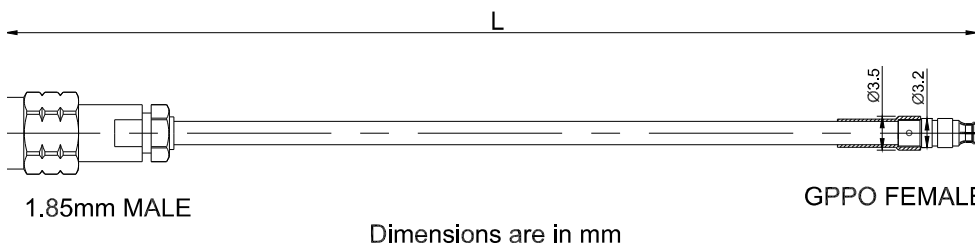


## P/N: FRU2-185MGPPF-XXX

### 1.85mm Male to GPPO(Mini-SMP) Female Cable Assembly | 3506 Series Low Loss Phase Stable Flexible Coax Cable | DC - 65GHz

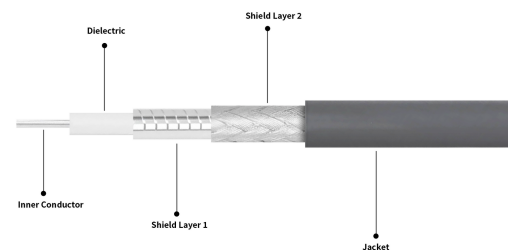


## Connectors Configuration

	Connector 1	Connector 2
Connector Series	1.85mm	GPPO(Mini-SMP)
Connector Polarity	Standard	Standard
Connector Gender	Male	Female
Connector Impedance (Ohm)	50	50
Connector Body Style	Straight	Straight
Connector Body Material	Stainless Steel	Beryllium Copper
Connector Body Plating	Passivated	Gold

## 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 ≤ (dB)
100	±3	DC - 65GHz	12 dB to 65 GHz	1.61 to 65GHz
200	±3			2.24 to 65GHz
300	±5			2.4 to 60GHz
400	±5		12 dB to 65 GHz	4.13 to 65GHz
500	±5			6.01 to 65GHz
600	±5			7.23 to 65GHz
800	±10			10.0 to 65GHz
1000	±10			12.81 to 65GHz
1500	±15			
2000	±20			

## Environmental Specifications

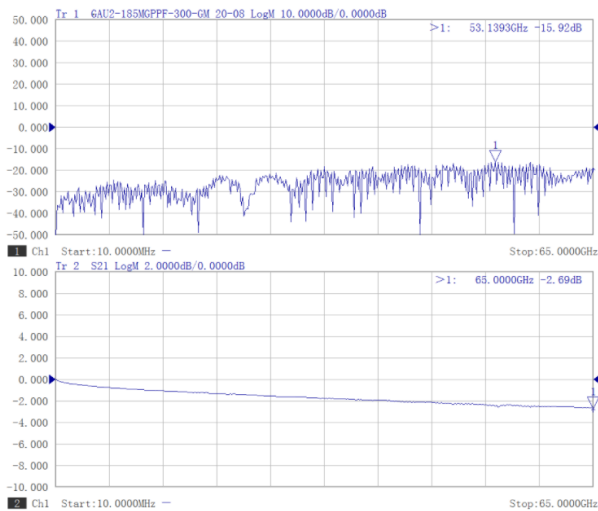
RoHS Compliant

Yes

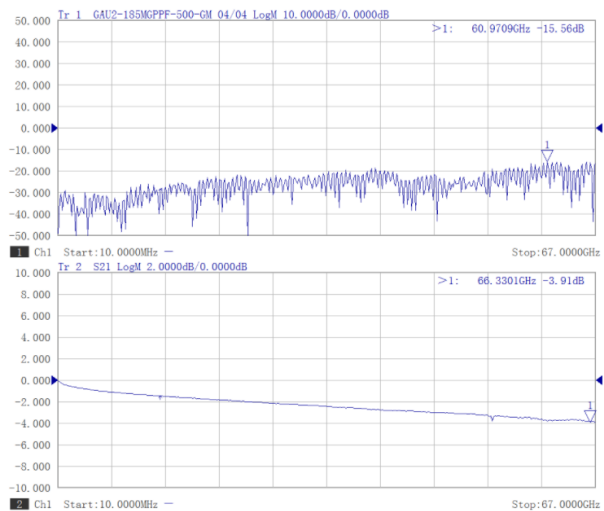
Operating Temperature Range

-55 °C to +125 °C

## Test Report for Cable assembly



\*Note: Test Cable Assembly Length = 300 mm



\*Note: Test Cable Assembly Length = 500 mm

## Revision History

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