Phaseline Series High Performance Phase Stable Test Cable

GP110 / 1.0 mm Female / 1.0 mm Female / DC-110GHz

Model: GP110-1.0F-1.0F-L



ARMOR DIAMETER: 4.8MM

Features:

- Max Frequency 110 GHz
- VSWR： 1.25 Typical
- Velocity： 80%

Applications:

- Test & Measurement equipment
- Manufacturing lab
- VNA use
- WAN system equipment

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		110	GHz
VSWR		1.25	1.40	:1
Velocity		80%		
Shielding Effectiveness	90			dB
Capacitance			81	pF/m
Phase Stability Vs. Flexure		±8		°
Amplitude Stability Vs. Flexure		±0.08		dB

Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	4.8	mm
Cable Jacket	PTFE	
Min. Bending Radius	25	mm
Typical Flex life	50000	
Operating Temperature	-55 to +125	℃
Storage Temperature	-55 to +165	℃

Cable Performance By Frequency

Frequency	1GHz	3 GHz	6 GHz	10GHz	12 GHz	18 GHz	26.5 GHz	40GHz	50 GHz	67GHz	110GHz
Insertion Loss (dB/m Max)	1.07	1.87	2.66	3.46	3.90	4.70	5.75	7.14	8.04	9.40	12.3
RF Power CW (W Max.)	33	19	13	12	11	8.5	6	5	4.0	4	3

Connectors:

Description	Connector 1	Connector 2
Type	1.0mm Straight Male	1.0mm Straight Female
Contact Material And Plating	Beryllium Copper,Gold	Beryllium Copper,Gold
Dielectric Type	PTFE	PTFE
Body Matericl And Plating	Passivated Stainless Steel	Passivated Stainless Steel
Insertion Loss (dB Max)	0.05*Sqrt(F_GHz)	0.05*Sqrt(F_GHz)

Outline Drawing:

