Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

G Series Semi-rigid Cable Assembly

G2/1.85 Male /1.85 Male/DC-67GHz

Model:G2-1.85M1.85M-L

Features:

- Max Frequency 67GHz
- VSWR max of 1.4
- Velocity of Propagation of 70%

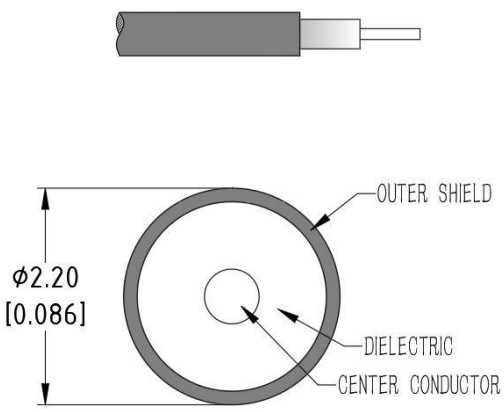
Applications:

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		67	GHz
VSWR		1.25	1.4	:1
Velocity of propagation		70%		
Shielding Effectiveness	90			dB
Capacitance			95.2	pF/m

Cable Cross Section:



Envrionmental And Physical Characteristics:

Parameter	Value	Units
Cable Diameter	2.2	mm
Min. Bending Radius	15	mm
Typical Flex life	50000	
Operating Temerature	-55 to +200	℃
Storage Temerature	25	℃

Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	12 GHz	16 GHz	18 GHz	26.5GHz	40GHz	50GHz	67GHz
Insertion Loss (dB/m Max)	1.00	1.46	1.84	2.23	2.74	3.24	3.48	4.41	5.71	6.35	8.8
RF Power CW (W Max.)	69	47	38	32	25	21	20	16	12	10	9

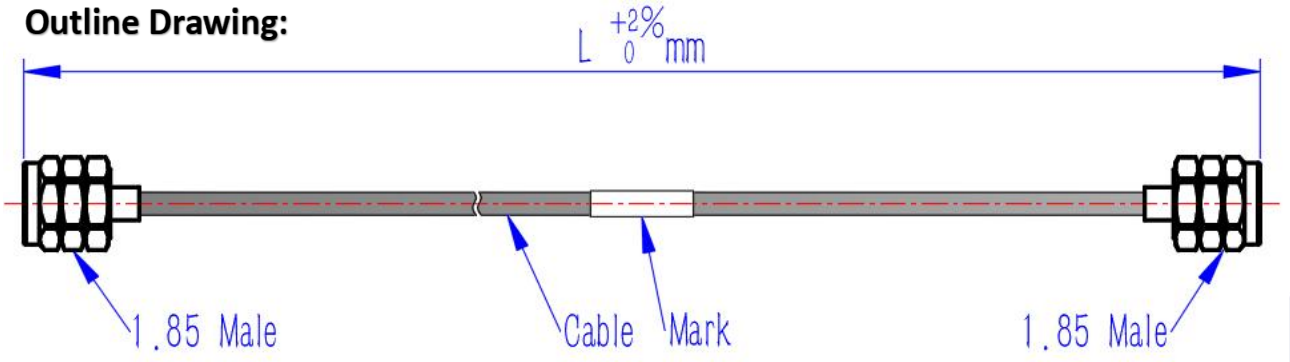
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Connectors:

Description	Connector 1	Connector 2
Type	1.85mm Straight Male	1.85mm Straight Male
Contact Matericl And Plating	Beryllium Copper,Gold	Beryllium Copper,Gold
Dielectric Type	PEI	PEI
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:



Ordering Information:

Base Number	Lenth	Armour （optional）	Phase/delay Matched （optional）
G2-1.85M1.85M	-L	-	-

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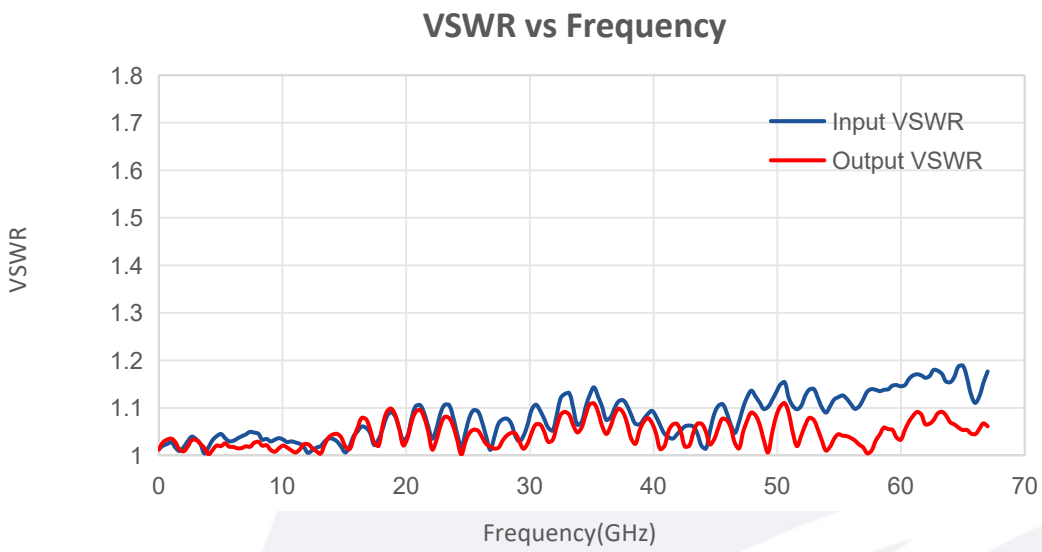
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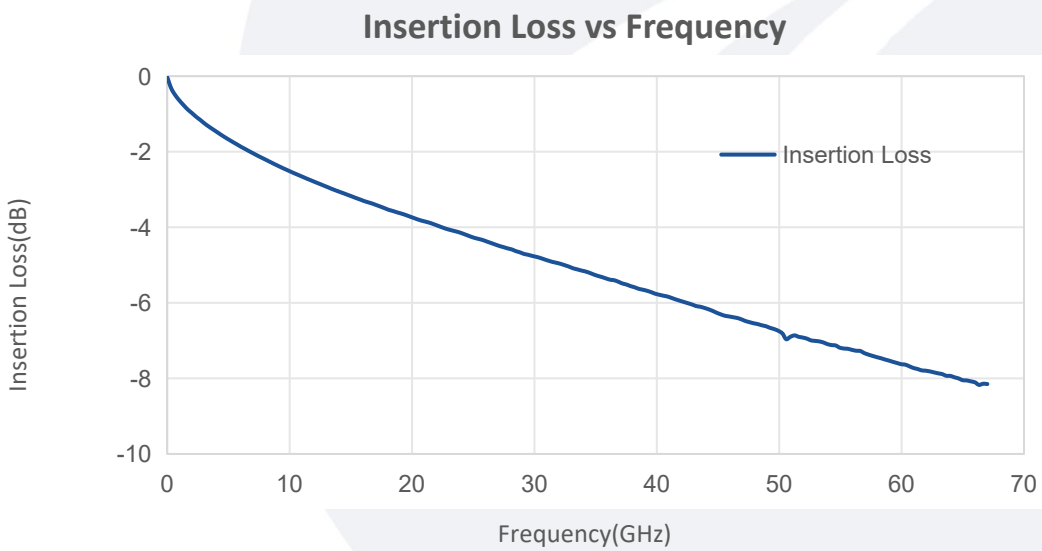
Typical Performance Data:

Model:G2-1.85M1.85M-1m

Frequency	2 GHz		6 GHz		12 GHz		18 GHz		26.5 GHz		40GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss	1.07	1.14	1.96	2.08	2.91	3.08	3.69	3.91	4.67	4.92	6.02	6.34
VSWR	1.05	1.10	1.05	1.10	1.10	1.15	1.15	1.20	1.20	1.25	1.25	1.30

Frequency	50 GHz		67 GHz	
	Typ	Max	Typ	Max
Insertion Loss	7.5	7.66	9.2	9.8
VSWR	1.30	1.35	1.4	1.45





Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.