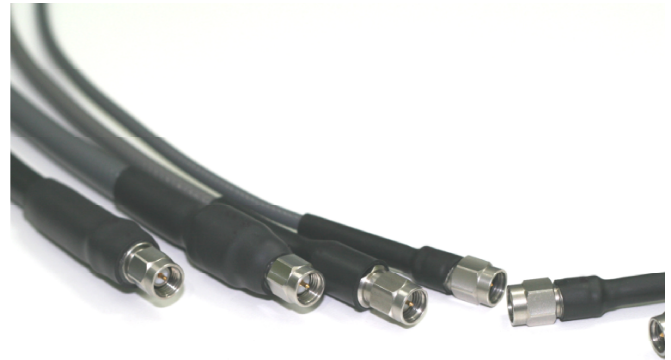


W1 Series are complete line of high performance flexible microwave cable assemblies.

The W1 have extruded **Low density PTFE dielectric** structure to allow low dielectric constant as close as air up to 1.3 and achieve fast velocity propagation of **83 %**.

W1 Series have the lowest insertion loss available to **18, 26.5, 40 GHz**.

These low loss cable assemblies are extremely versatile, moderately priced and fit a variety of applications.



■ Features

- Center Conductor : Silver Plated Copper
- Dielectric core : ; LD PTFE
- Outer Conductor : Silver Plated Copper Ribbon
- Outer Shield : Silver Plated Copper

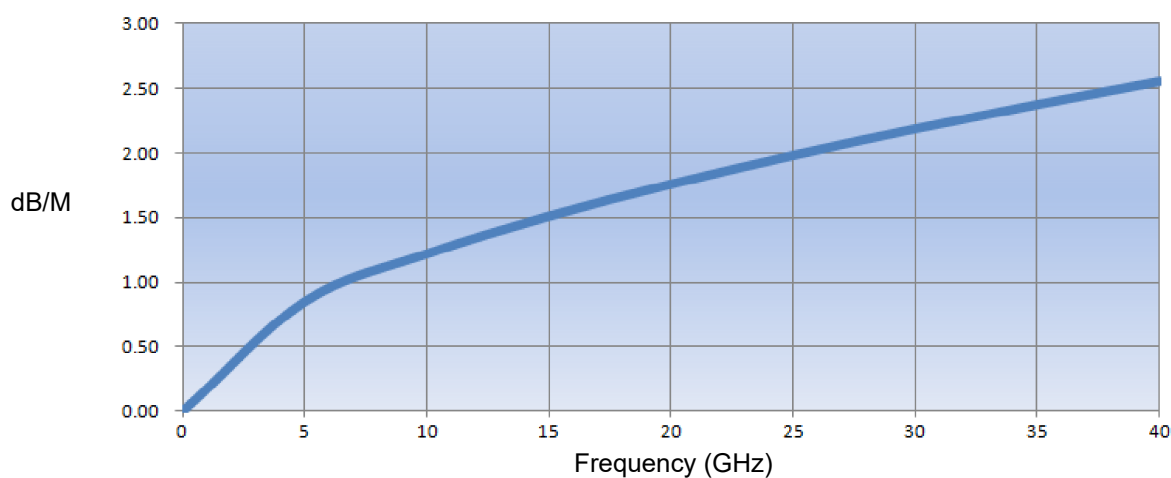


■ Specification

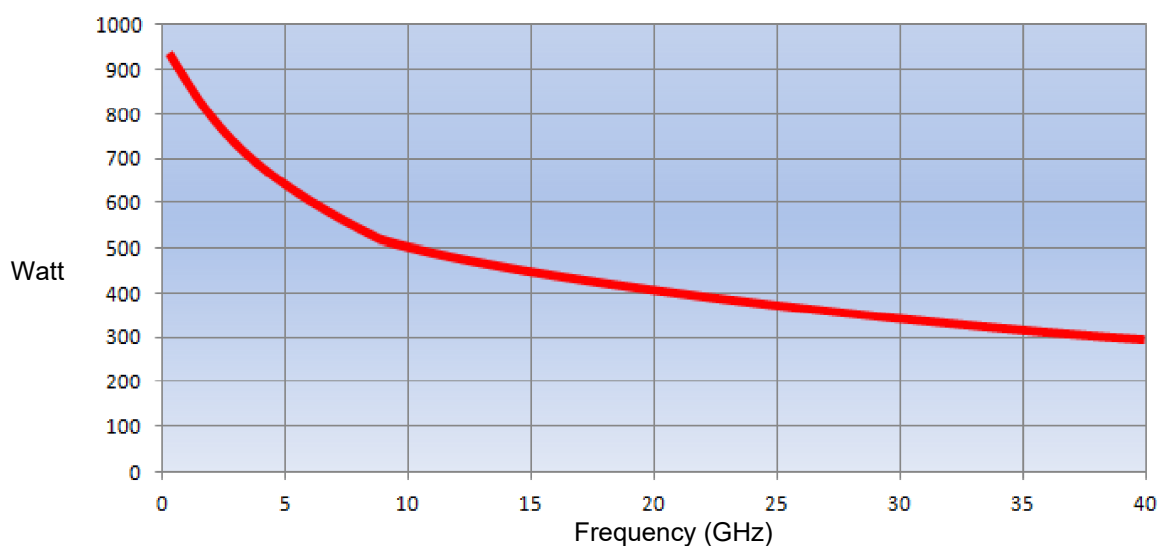
Scope	Specification	W100	W101	W102
Physical	Center Conductor	0.91	1.45	2.30
	Dielectric	2.50	4.00	6.20
	Outer Conductor	2.66	4.20	6.55
	Outer Shield	3.15	4.70	7.10
	Jacket	3.60	5.10	7.80
Electrical	Impedance(Ohm)		50	
	Operation Freq.(GHz)	40	26.5	18
	Velocity of Propagation(%)		83	
	Shielding Effectiveness(dB)		90	
	Voltage Withstand(V,DC)	1,000	1,500	2,000
Mechanical & Environmental	Weight (g/M)	33	50	130
	Bending Radius : Installation (mm)	18	20	35
	Repeated (mm)	36	50	80
	Mechanical Phase		± 5°	
	Temperature (Operating)		-55 ~+165℃	
	Temperature (Storage)		-65 ~+165℃	

■ W100 (40 GHz)

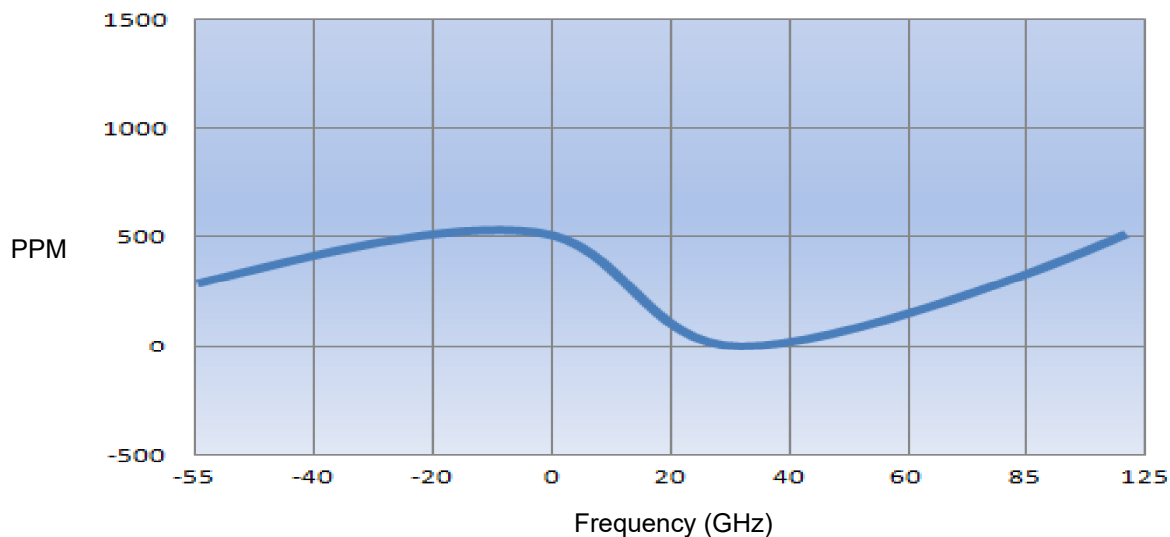
Cable Attenuation (Nominal Values @ +25 °C Ambient temperature)



Power Handling (Maximum Values @ +40 °C Ambient temperature & Sea level)

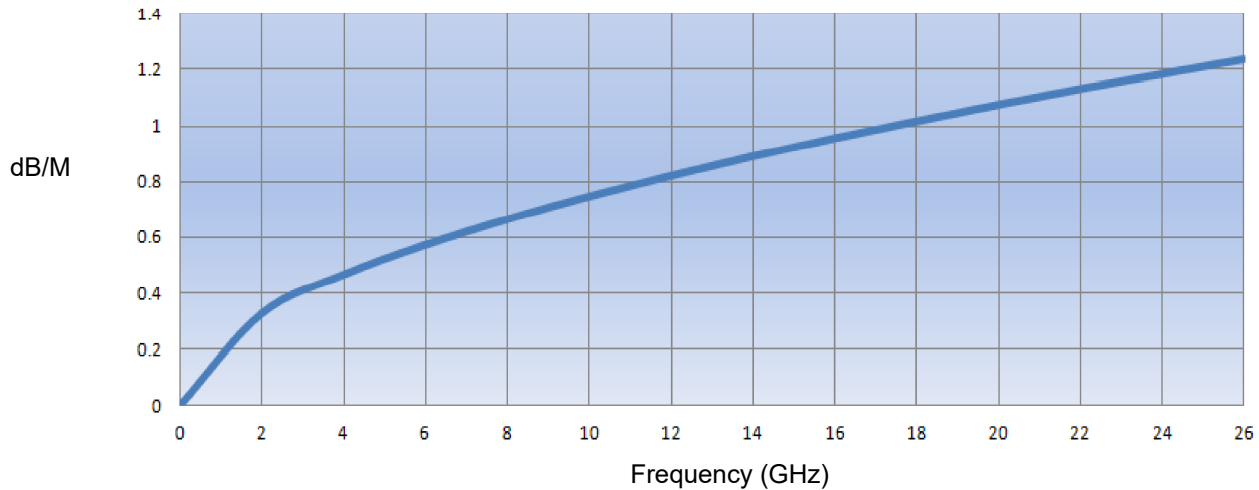


Typical Phase change

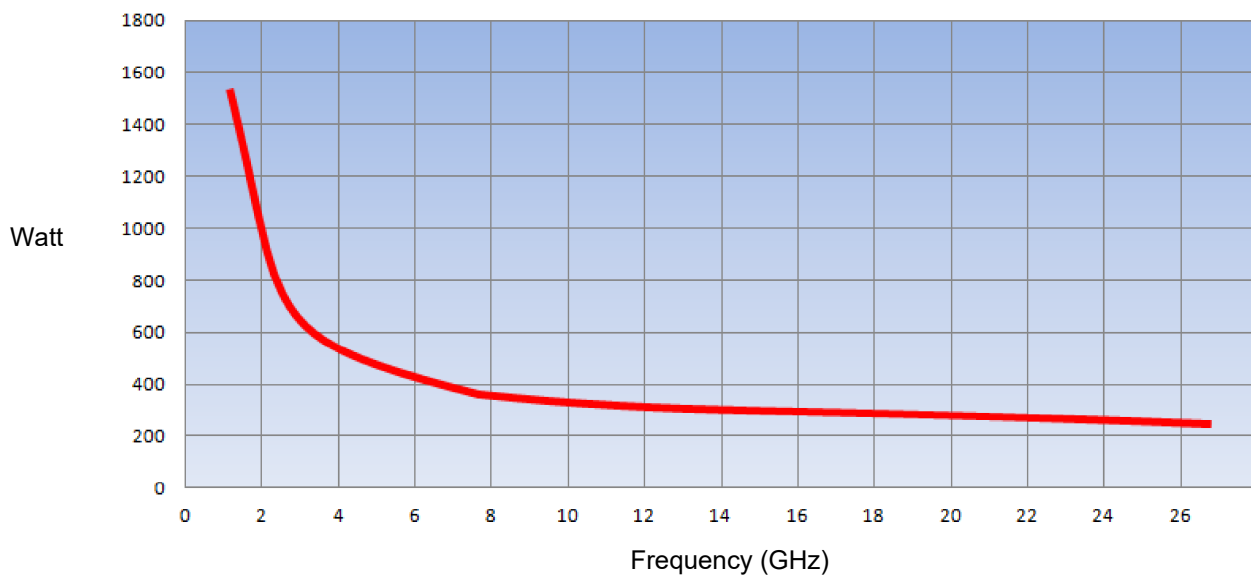


■ W101 (26.5 GHz)

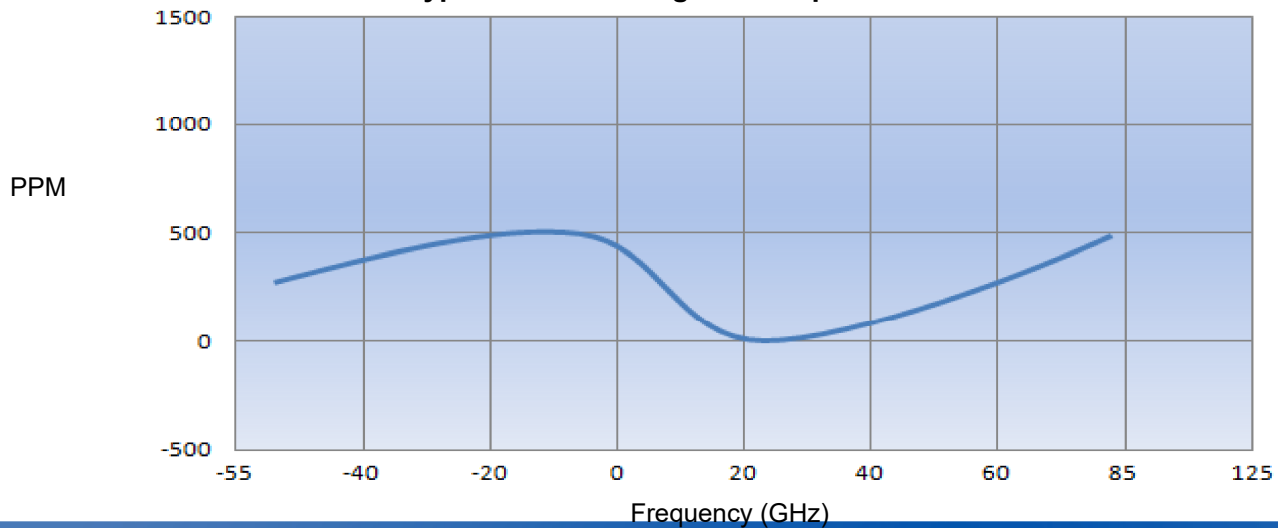
Cable Attenuation (Nominal Values @ +25 °C Ambient temperature)



Power Handling (Maximum Values @ +40 °C Ambient temperature & Sea level)

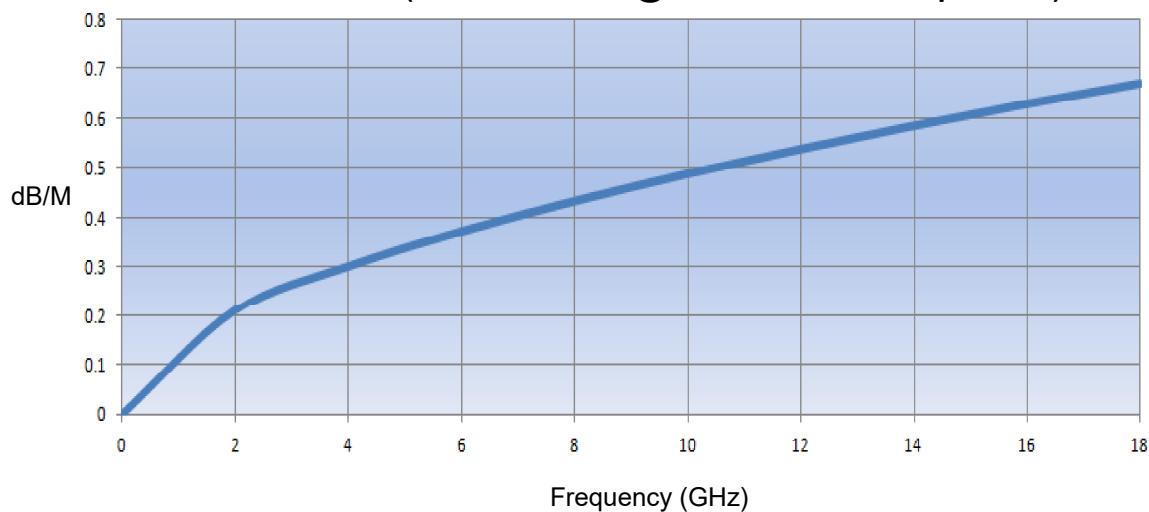


Typical Phase change vs Temperature

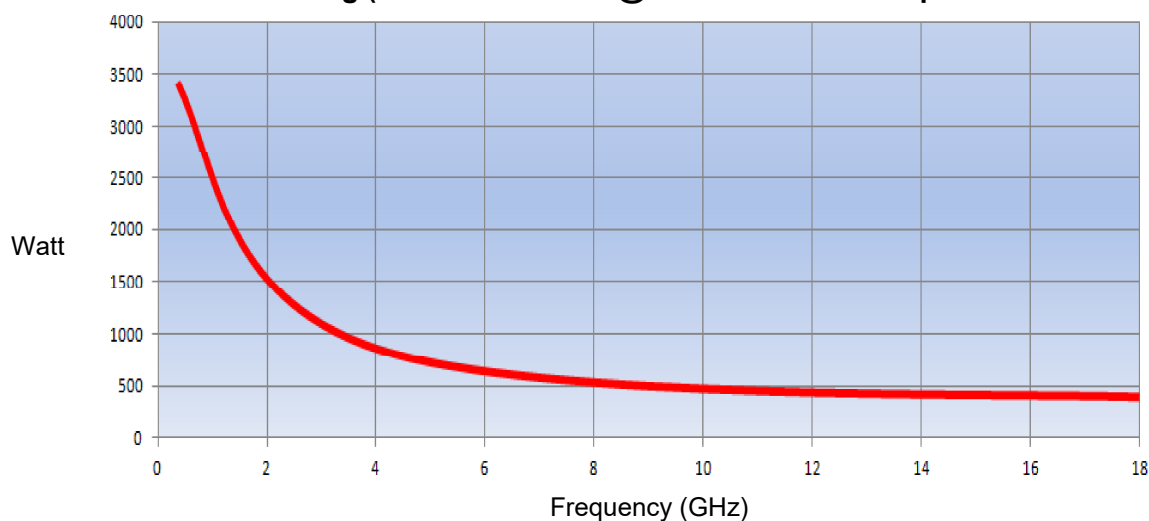


■ W102 (18 GHz)

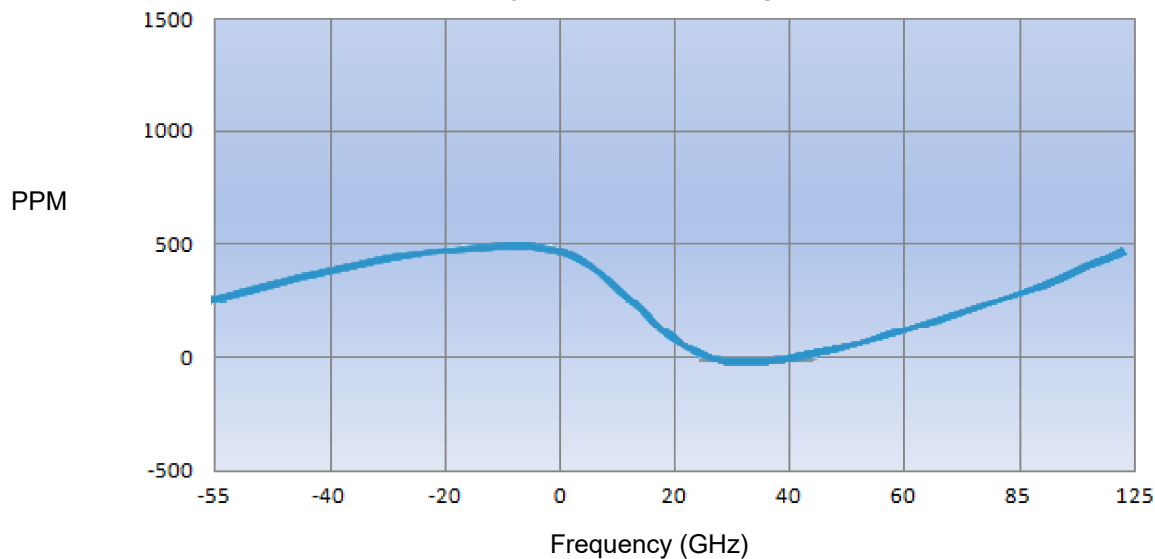
Cable Attenuation (Nominal Values @ +25 °C Ambient temperature)



Power Handling (Maximum Values @ +40 °C Ambient temperature & Sea level)



Typical Phase change

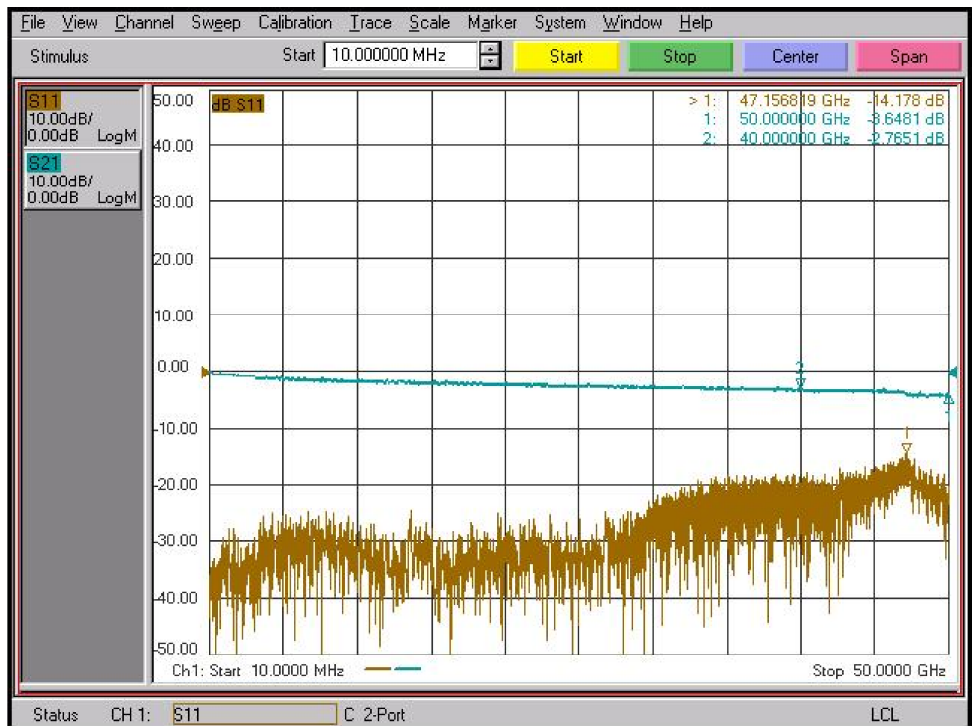


Test Result

W100 cable Assembly

Part No: W100-24M24M-1M

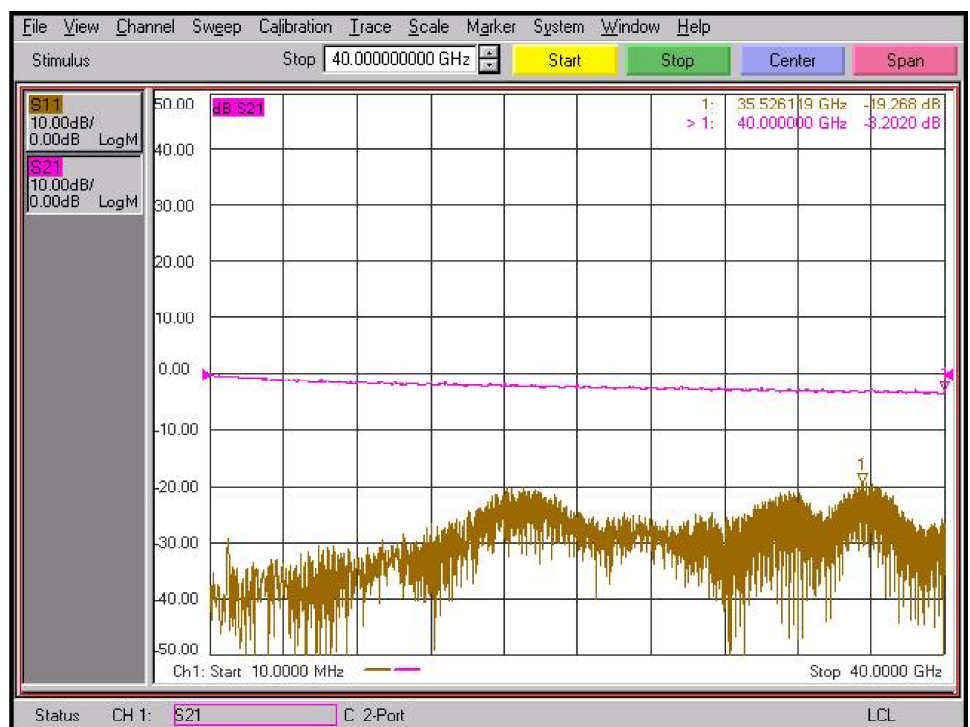
- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Male)
- Cable Length : 1 meter



W100 cable Assembly

Part No: W100-KM1KM1-1M

- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 1 meter

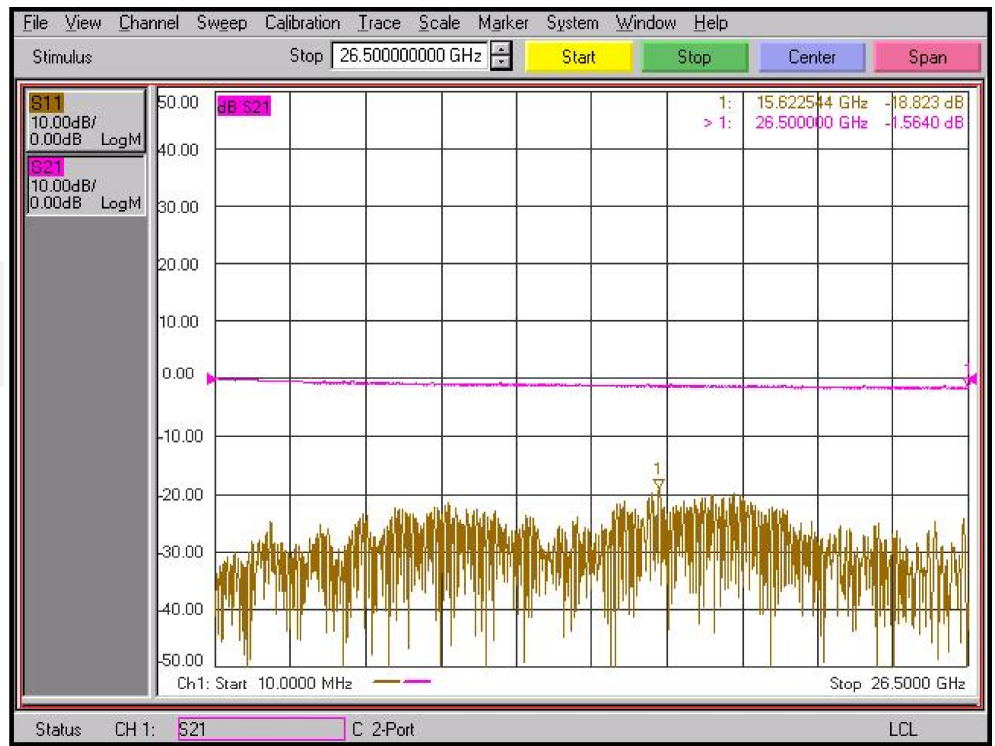


Test Result

W101 cable Assembly

Part No: W101-SM1SM1-1M

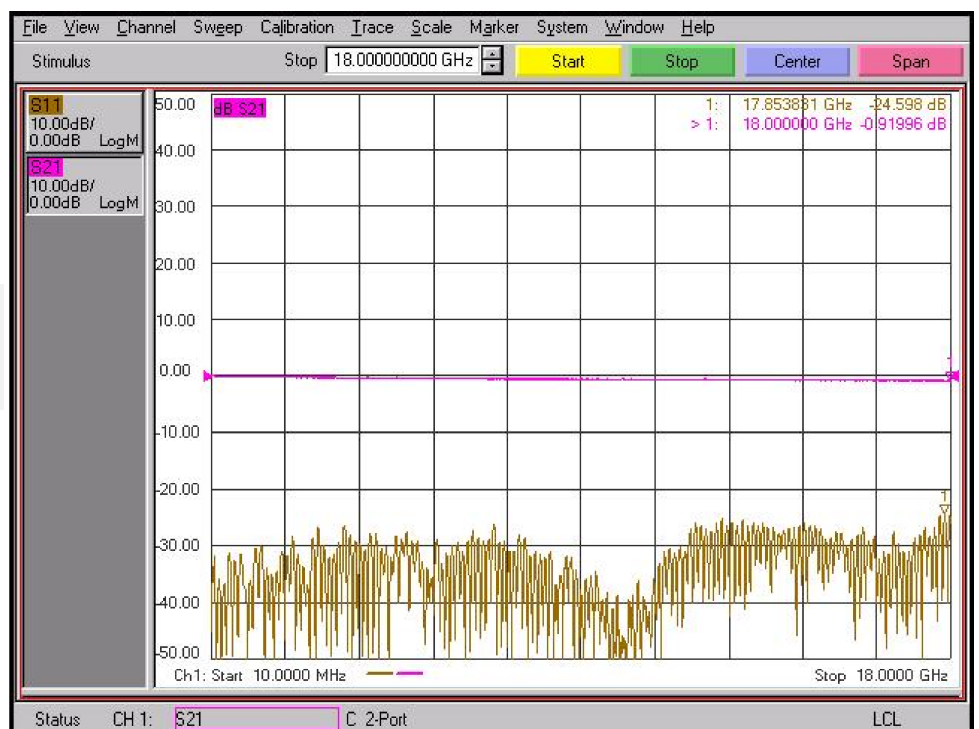
- Frequency : DC to 26.5 GHz
- Connector : SMA (Male)
- Cable Length : 1 meter



W102 cable Assembly

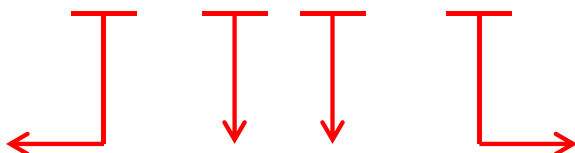
Part No: W102-SM1SM1-1M

- Frequency : DC to 18 GHz
- Connector : SMA (Male)
- Cable Length : 1 meter



■ Selection Guide

W100 – KM1KM1 – 1M



Cable Type

W100
W101
W102

Connector Type

SM1 : SMA Male
KM1 : 2.92 mm Male
35M : 3.5 mm Male
NM1 : N-type Male

Cable Length

Unit : Meter

O.D : 3.6 mm



W100 (40G)

O.D : 5.1 mm



W101 (26.5G)

O.D : 7.8 mm



W102 (18G)