芝程科技有限公司
Marvelous Microwave Inc.

MVE Low Loss Flexible 67GHz Coax Test Cable

MCBL-LL670.50

MCBL-LL670P.50*Phase Stable

Features:

- FREQUENCY: 67GHz
- High Flexibility
- Phase & Loss Stable
- High Matching Cycles, Stainless Steel Connectors
- Full Armor solutions

Applications:

- RF&Microwave Test and Calibration
- Research and Development Labs
- Interconnect RF Equipment in Narrow Enviorment
- Military / Commercial Communication Systems Interconnect

Specifications

CONSTRUCTION		
ITEM	**MATERIAL**	**DIAMETER**
CENTER CONDUCTOR	Silver Plated Copper	0.50 ±0.02mm
DIELETCRIC	LD PTFE	1.38mm
OUTER CONDUCTOR	Silver-plated Copper Foil	1.54mm
OUTER SHIELDING	Silver Plated Copper	1.89mm
JACKET	FEP	6.00±0.2mm

ELECTRICAL DATA	
ITEM	**SPECIFICATION**
FREQUENCY	67GHz
CHARACTERISTIC IMPEDANCE	50 Ohm
BEND RADIUS(mm)	22mm MIN. (Repetition)
OPERATING TEMP	-55℃~ +125℃
SHIELDING EFFECTIVENESS	Typically <-90 dB
VOLTAGE WITHSTAND (V,DC)	400
VELOCITY OF PROPAGATION	82.0 %
***OPTION-P** (PASHE STABILITY)	±10-° ~±15° TYP. (P/N# MCBL-LL670P.50)

TYP. ATTENUATION(25°C) and **TYP. AVG. POWER** (40°C)

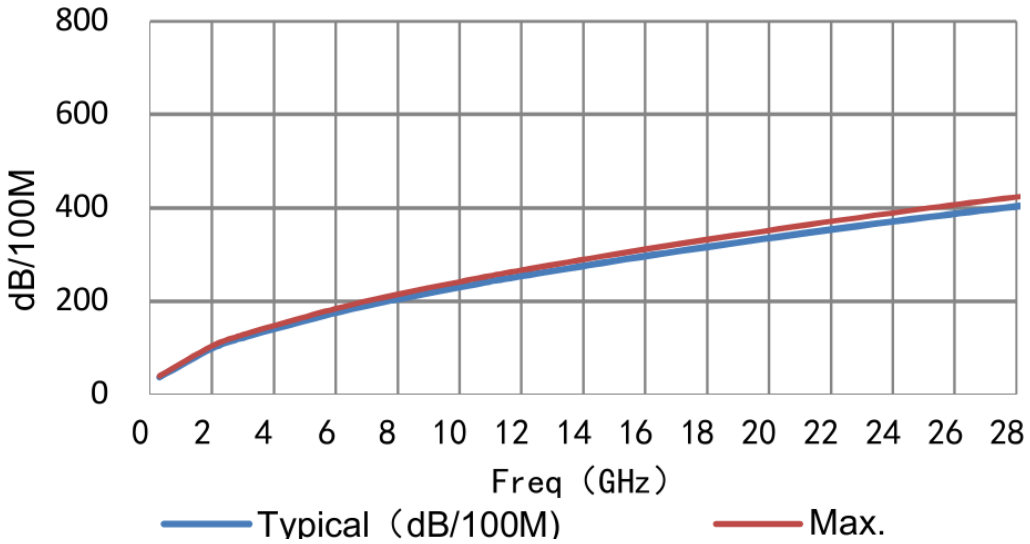
Freq.(GHz)	0.3	2	3	6	8	10	12	18	26.5	40	50	67
dB/100m	37.5	98.8	121.9	175.3	204.2	230.1	253.8	316.3	391.4	493.2	560.1	663.4
Power kW	0.178	0.068	0.055	0.038	0.033	0.029	0.026	0.021	0.017	0.014	0.012	0.010

K1= 2.1358324

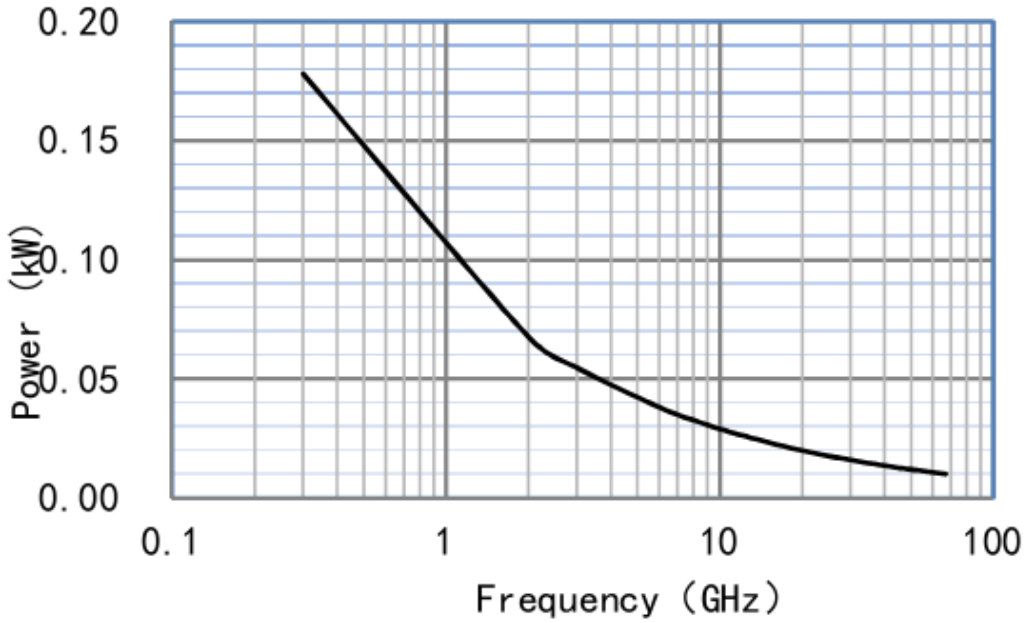
K2= 0.0016507

Equation＝ K1*√FMhz+K2*FMHz

Cable Attenuation



Average Power



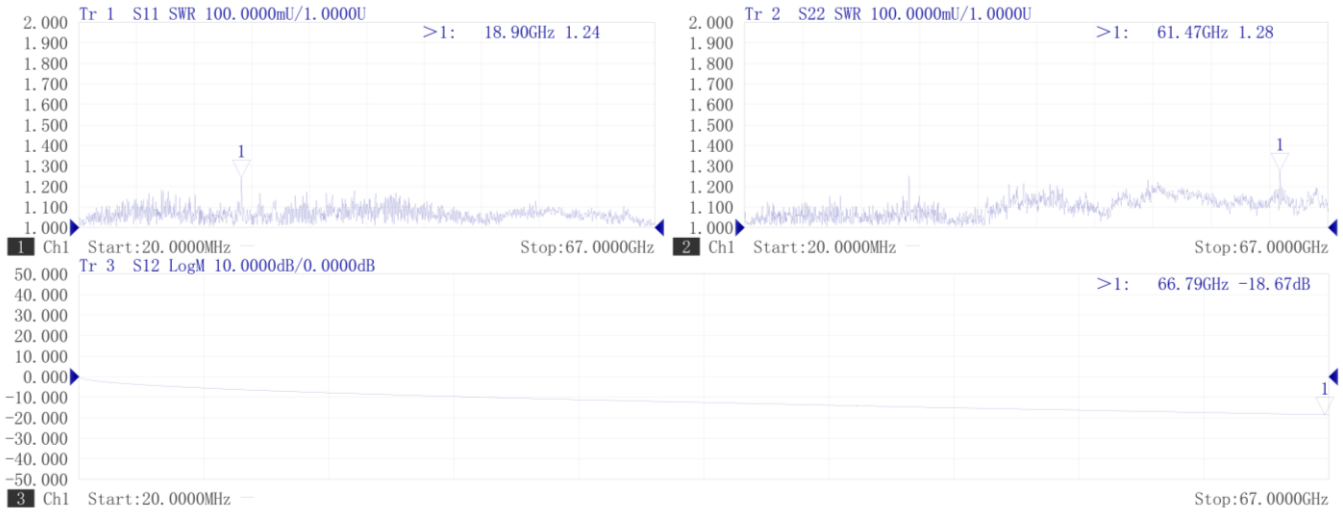
Cable Assembly Part Number

MVE PART NUMBER	CONECTOR 1	CONNECTOR 2	LENGTH (cm)	FREQUENCY (GHz)	VSWR
100110.LL670.XX	1.85mm Male	1.85mm Male	15, 30, 50, 60, 90, 100	67.0	1.40

NOTES:
1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

Typical Test Result

PART NUMBER	DESCRIPTION
100.110.LL670.300	1.85mm Male To 1.85mm Female, LL670/L:300cm DC-67GHz Low Loss, Phase Stable Cable(with Armor) VSWR<1.4 / I.L<21dB



	SweepType	Start Frequency	Stop Frequency	Points	IF BW(Hz)	SweepTime(s)	Port1,2Power(dBm)
Ch1	LIN_SWEEP	0.020000000GHz	67.000000000GHz	1601	10000	1.000000	0.0,0.0

	Marker	Delta	Stimulus	Response
Win1				
Trace1--S11	1		18.8999GHz	1.243
Win2				
Trace2--S22	1		61.4741GHz	1.276
Win3				
Trace3--S12	1		66.7906GHz	-18.670dB

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RoHS