

CABLE ASSEMBLY

280280.LL415P.10EC

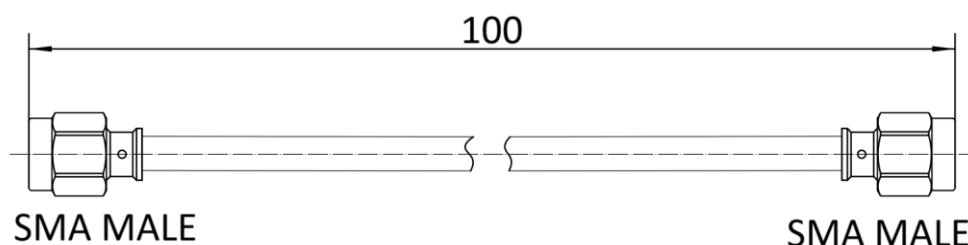
Features

- ✓ Frequency Range: DC to 10GHz
- ✓ SMA Male To SMA Male Cable Assembly
- ✓ Low VSWR



Part Number	280280.LL415P.10EC
Description	SMA Male To SMA Male, DC-10GHz LL415P Low Loss, Phase Stable Cable, No Heat-Shrink Tubing, short soldering connector/L:10cm
Connector 1	SMA Male
Connector 2	SMA Male
Electrical Specifications	
Frequency	10GHz
Impedance	50Ω
VSWR	1.25 TYP.
Insertion Loss	0.42dB MAX.

Outline Drawing (Unit: mm)



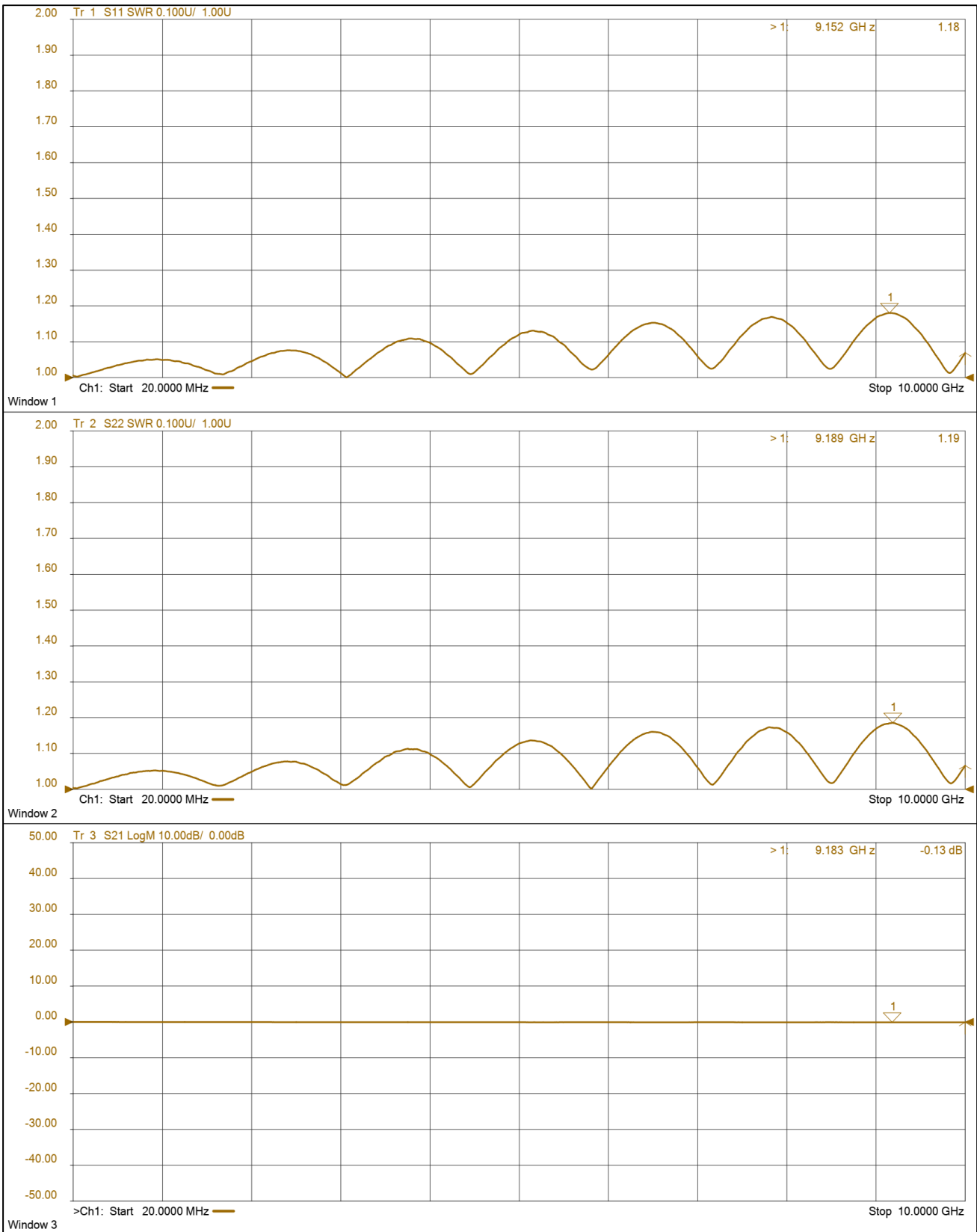
Tolerance: Length $\pm 0.5\text{cm}$ △The length cable is referring to include two terminal length of connector.

NOTES:

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



Typical Test Result



MVE Low Loss Flexible Phase stable Coax Cable

MCBL-LL415P.50

Specifications

Features

- 82%Vp PTFE Tape + SPC Foil
- Ultra Low Loss, Excellent Temp Phase Stable

Applications

- Military / Commercial Communication Systems Interconnect
- Shipboard System
- Airborne Platform
- Radio Station

CONSTRUCTION

ITEM	MATERIAL	DIAMETER(mm)	Tolerance(mm)
CENTER CONDUCTOR	Silver Plated Copper	1.06	±0.03
DIELECTRIC	LD PTFE	2.95	±0.05
OUTER CONDUCTOR	Silver Plated Copper Foil	3.15	±0.05
INNER LAYER	MID-Layer	3.19	±0.05
OUTER SHEILD	Silver Plated Copper	3.50	±0.15
JACKET	Gray FEP	3.90	±0.15

ELECTRICAL DATA

MIN. BEND RADIUS :Installation	19mm
MIN. BEND RADIUS: Repeated	39mm
WEIGHT (g/m)	36
OPERATING TEMP	-55°C ~ +165°C
TEMP STORAGE	-65°C ~ +165°C

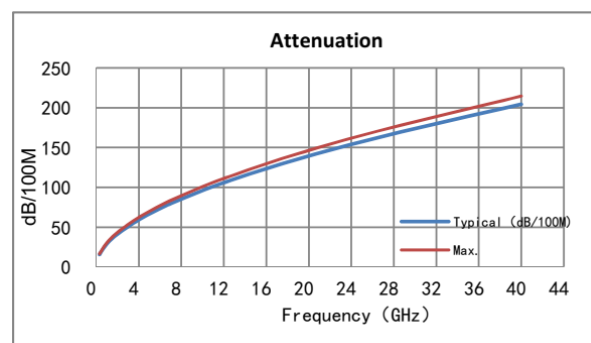
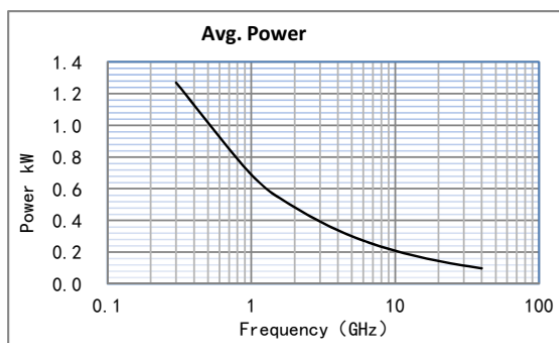
MECHANICAL DATA

FREQUENCY	40.0GHz
IMPEDANCE	50 Ohm
VELOCITY OF PROPAGATION	82.0 %
SHIELDING EFFECT	90 dB
VOLTAGE WITHSTAND	900 V.DC

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

Freq.(GHz)	0.3	1	2	4	6	7.5	10	12	18	26.5	40.0
dB/100m	15.8	29.1	41.5	59.4	73.4	82.5	96.1	105.9	131.7	162.7	204.4
Power kW	1.270	0.689	0.483	0.337	0.273	0.243	0.208	0.189	0.152	0.123	0.098

$K1 = 0.8999642$ $K2 = 0.0006109$ Equation = $K1 \cdot \sqrt{F \text{ MHz}} + K2 \cdot F \text{ MHz}$



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