



00100A2H643XXX

Cable Assembly

9GHz IPEX-I (M)-SMA(F) for Φ1.37mm Low Loss Cable Assembly

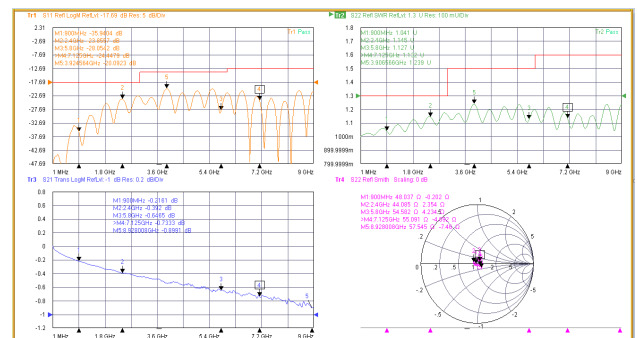
Features

- High Repeatability
- Low VSWR



Test Report

20cm:



Electrical Specifications

Frequency	DC-9GHz
VSWR	1.3:1(Max.)DC-3GHz 1.5:1(Max.)@3-6GHz 1.9:1(Max.)@6-9GHz
Impedance	50Ohm
Connection 1	SMA Female
Connection 2	MHF Plug(20351-112R-37)
Mating Connector	20279/20441

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	
2.Heat Shrink Tube		
		Yellow
3.Cable		
Φ1.37mm Mini Coaxial Cable		Black
4.I-PEX Connector		
GND Contact	Phosphor Bronze	All over Ni 1.00μm Min. Contact part Au 0.05μm Min.
Housing	PBT	UL94V-0,White
Contact	Phosphor Bronze	All over Ni 1.00μm Min. Contact part Au 0.10μm Min.

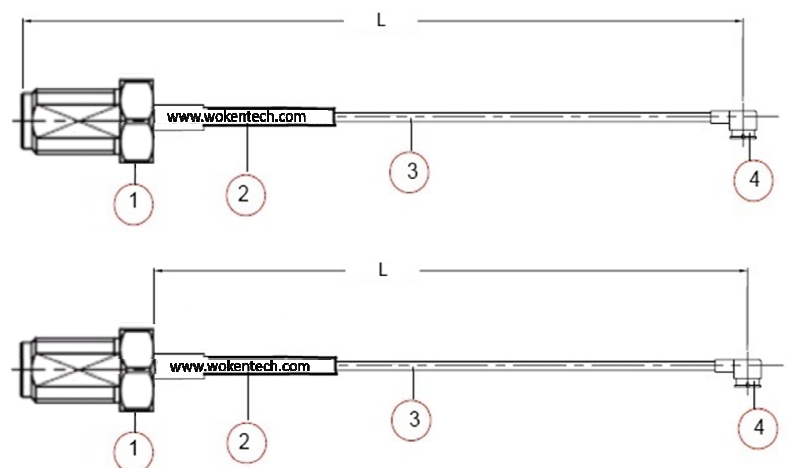
Mechanical

Durability SMA:500 Cycles

Outling Drawing (Unit:mm)

DIMENSIONS	TOLERANCES
0.5~10mm	±0.2
11~100mm	±5.0
101~500mm	±10.0
501~1000mm	±15.0
1001~2000mm	±20.0
2000~5000mm	±50.0

L:NC



All Specification Changed Without Notification.



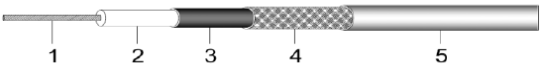
Wake up your further dream.



φ Low Loss 1.37mm Mini Coaxial Cable Physical Characteristics

Center Conductor	Construction Size (Total/O.D. of every wire(mm))	7/0.12
	Standard Diameter	0.36±0.02mm Silver Plated Copper
Insulation	Diameter	1.08±0.05mm FEP
Outer Conductor	Construction (Thickness*Width)	0.012*3.8 mm Cu-plastic composite tape
Braid Shield	Coverage	90%
	Diameter	1.26±0.05mm Tinned Copper Wire
Jacket	Overall Diameter	1.37±0.08mm PFA(Black)
Min. Bending Radius		4mm

φ Low Loss 1.37mm Mini Coaxial Cable Electrical Characteristics

Impedance	50 ± 2ohms	
Operating Temperature	-55~+125℃	
Capacitance	98±4pF/m	
Operating Frequency	10GHz	
Velocity of propagation	70%	
VSWR	1.3(Max.)@DC-6GHz 1.4(Max.)@6-8GHz 1.5(Max.)@8-10GHz	
Maximum Attenuation(dB/M) @ 	1GHz	1.20
	2GHz	1.75
	3GHz	2.20
	4GHz	2.48
	5GHz	2.83
	6GHz	3.18
	7GHz	3.74
	8GHz	4.00
	9GHz	4.27
	10GHz	4.63

**Wake up your further dream.**

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : $0.06 \times \sqrt{\text{頻率}}$ (2 端都有接頭則需將此數值 x2)(I-PEX ,Murata Connector 不適用此公式)
2. 組裝 Loss : 0.12 (2 端都有組裝則需將此數值 x2)
3. 線材 Loss : 依上述 Maximum Attenuation 換算需求長度之 Loss