



00100A1H646XXX

Cable Assembly

9GHz IPEX-4L (M)-SMA(M) for
Φ1.37mm Cable Assembly

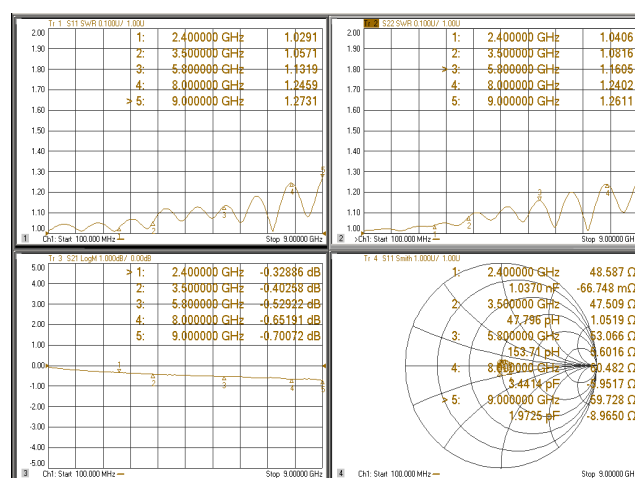
Features

- High Repeatability
- Low VSWR



Test Report

10cm:



Electrical Specifications

Frequency	DC-9GHz
VSWR	1.3:1(Max.)@DC-6GHz 1.35:1(Max.)@6-8GHz 1.5:1(Max.)@8-9GHz
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	MHF 4L Plug

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	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. [Ni Plating Area] Ni Only
Housing	PBT	UL94V-0,Black
Contact	Phosphor Bronze	All over Ni 1.00μm Min. Contact part Au 0.10μm Min.

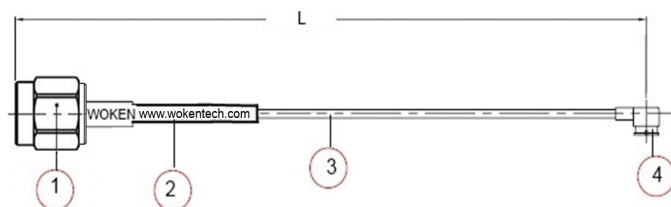
Mechanical

Durability SMA:500 Cycles

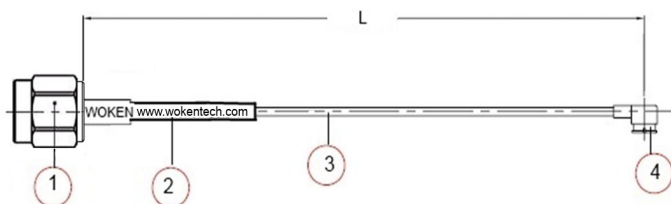
Outling Drawing (Unit:mm)

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

長度含接頭:



長度不含接頭:



All Specification Changed Without Notification.



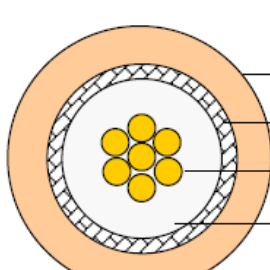
Wake up your further dream.



ϕ 1.37mm Mini Coaxial Cable Physical Characteristics

Center Conductor	Construction Size	0.102 $\pm$ 0.003mm
	Standard Diameter	0.31mm Silver Coated Copper
Insulation	Average Thickness	0.30mm
	Diameter	0.92 $\pm$ 0.03mm FEP
Braid Shield	Construction	16/6/0.050 $\pm$ 0.003 mm
	Coverage	95%
	Diameter	1.15 $\pm$ 0.05mm Tinned Coated Copper
Jacket	Average Thickness	0.13mm
	Overall Diameter	1.37 $\pm$ 0.05mm FEP(Black)
Min. Bending Radius		9mm

ϕ 1.37mm Mini Coaxial Cable Electrical Characteristics

Impedance	50 $\pm$ 3ohms	
Operating Temperature	-60 $\sim$ +105 $^{\circ}$ C	
Capacitance	96 $\pm$ 3pF/m	
Conductor Resistance	335 ohms/KM at 20 $^{\circ}$ C (max.)	
Operating Frequency	6GHz	
Velocity of propagation	69%	
 Jacket Braid Shield Conductor Insulation	Maximum Attenuation(dB/M) @ 1.8GHz	2.20
	2.4GHz	2.60
	2.45GHz	2.60
	5.2GHz	3.90
	5.8GHz	4.30
	6GHz	4.30

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : 0.06 x $\sqrt{\text{頻率}}$ (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