



00100A8H643XXX

Cable Assembly

6GHz IPEX-I (M)-PCB SMA(F)R/A
for $\Phi 1.37\text{mm}$ Cable Assembly

Features

- High Repeatability
- Low VSWR



Test Report

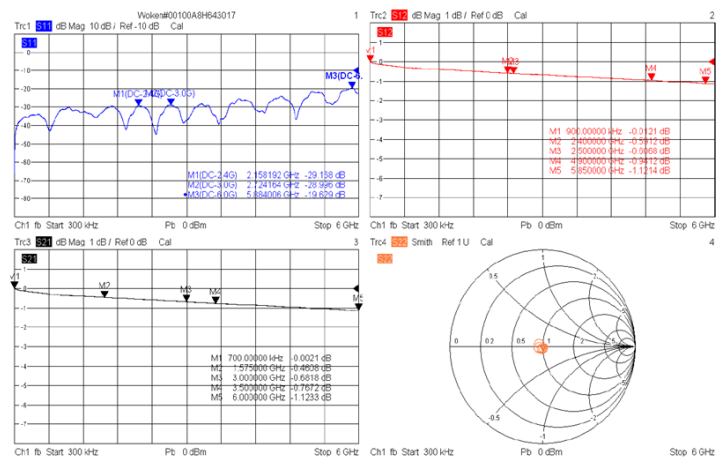
18cm

Electrical Specifications

Frequency	DC-6GHz
VSWR	1.3:1(Max.)
Impedance	50Ohm
Connection 1	PCB SMA Female Right Angle
Connection 2	I-PEX-I Connector
Mating Connector	20279/20441

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Beryllium Copper	Gold
Insulator	Teflon	
2.Heat Shrink Tube		Yellow
3.Cable		
$\Phi 1.37\text{mm}$ Mini Coaxial Cable		Black
4.I-PEX Connector		
Contact	Brass	Gold
Housing	PBT	
Ground	Brass	Gold

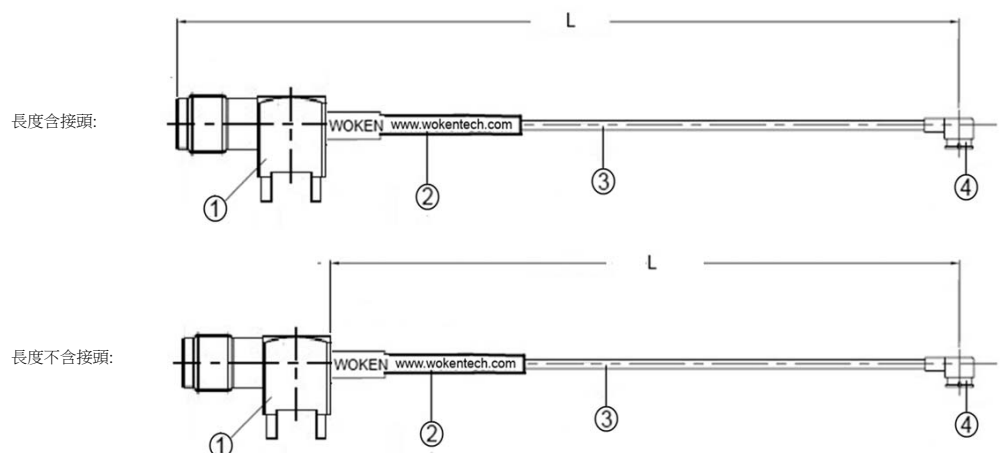


Mechanical

Durability	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



All Specification Changed Without Notification.



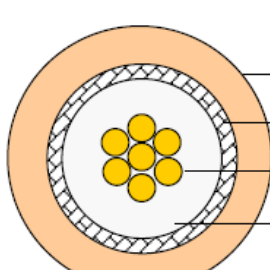
Wake up your further dream.



φ 1.37mm Mini Coaxial Cable Physical Characteristics

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

φ 1.37mm Mini Coaxial Cable Electrical Characteristics

Impedance	50 ± 3ohms	
Operating Temperature	-60~+105°C	
Capacitance	96±3pF/m	
Conductor Resistance	335 ohms/KM at 20°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 √ 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