



00100A2H643XXX

Cable Assembly

IP I(M)90° -SMA(F) for $\Phi 1.37\text{mm}$ Cable
Assembly/ DC-6GHz@VSWR:1.3,
6~7.2GHz@VSWR:1.5

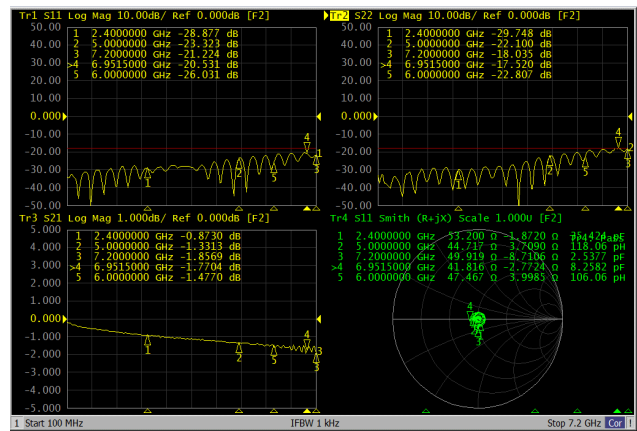
Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

30cm:



Electrical Specifications

Frequency	DC-6GHz
VSWR	1.3:1(Max.)@DC-6GHz 1.5:1(Max.)@6-7.2GHz
Impedance	50Ohm
Connection 1	SMA Female
Connection 2	IP I
Mating Connector	20279-001

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	
2.Cable		
$\Phi 1.37\text{mm}$ Mini Coaxial Cable		Black
3.IP Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	
4.Heat Shrink Tube		Black
5.Heat Shrink Tube		Yellow

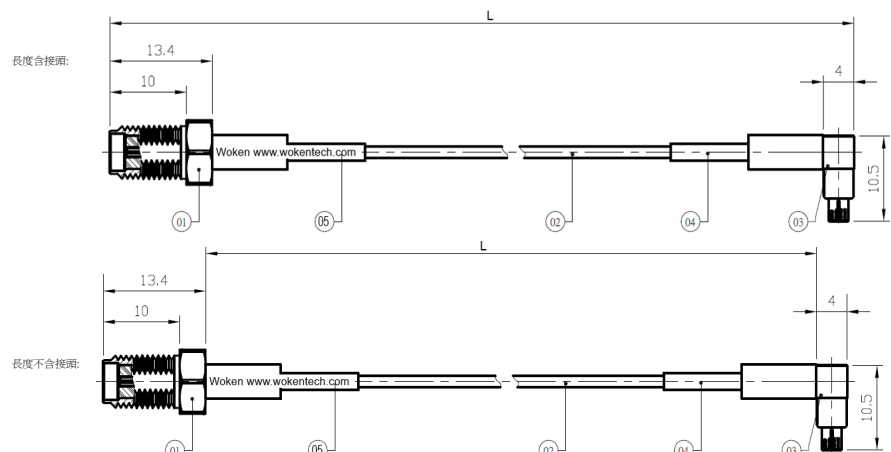
Mechanical

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

Note:L:10cm 以下,Part 5 改為不印字黑色熱縮套





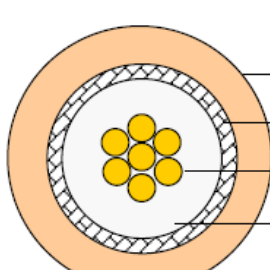
Wake up your further dream.



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