



00100A1H4W3XXX

Cable Assembly

8GHz 8130/8430-SMA(M) for Ø1.37mm Cable Assembly

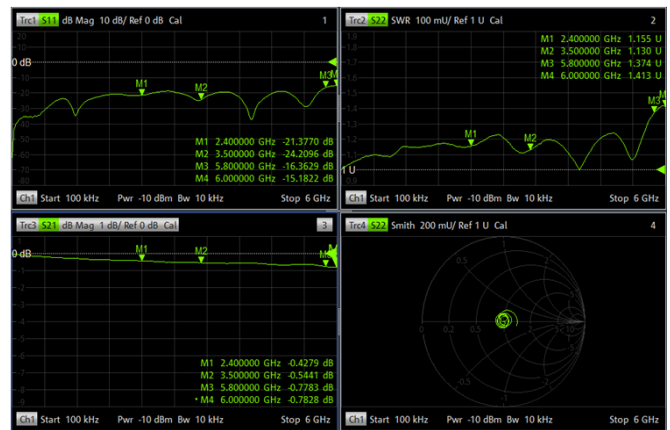
Features

- High Repeatability
- Low VSWR



Test Report

20cm



Electrical Specifications

Frequency	DC-8GHz
VSWR	1.5:1(Max.)@DC-6GHz 1.6:1(Max.)@6-8GHz(TDR量測)
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	8130/8430

Material

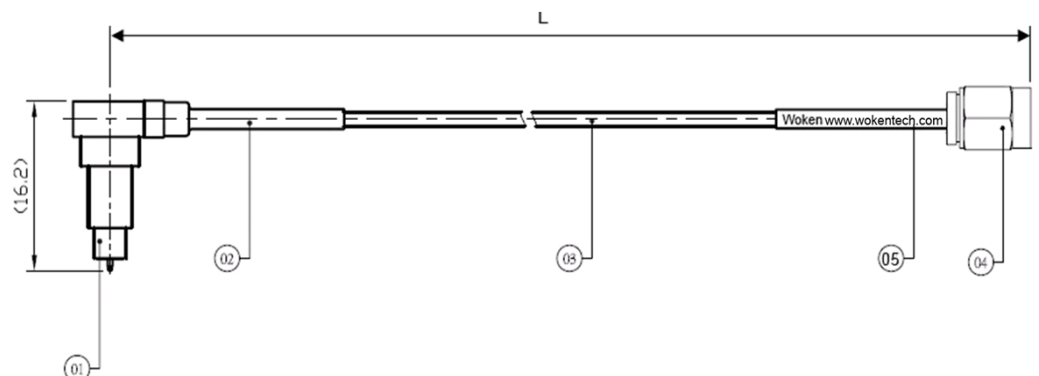
Part	Material	Plated
1.8130/8430 Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	
2.Heat Shrink Tube		
		Black
3.Cable		
Φ1.37mm Mini Coaxial Cable		Black
4.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
5.Heat Shrink Tube		
		Yellow

Mechanical

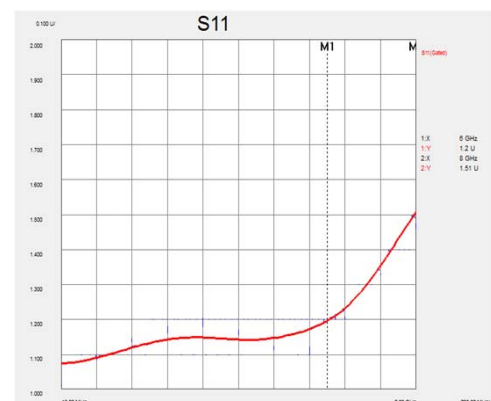
Durability	500 Cycles
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Outling Drawing (Unit:mm)

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



TDR Test(8G)



All Specification Changed Without Notification.



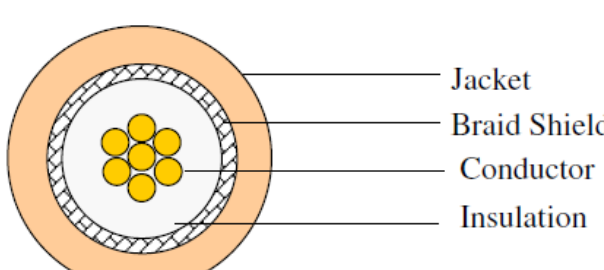
Wake up your further dream.



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%	
	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