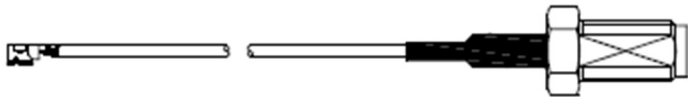
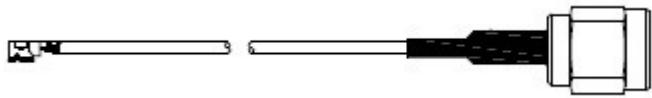

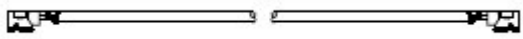
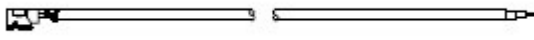


CABLE ASSEMBLY

MINI COAX-1.13mm IPEX-MHF (20278) STANDARD SMA (6GHz)

PART NUMBER	DESCRIPTION	OUTLINE
342296.113.XX	20278-112R To SMA Female BH, 1.13 Gray/L:XXcm	
342280.113.XX	20278-112R To SMA Male, 1.13 Gray/L:XXcm	
342299.113.XX	20278-112R To SMA Female Reverse BH, 1.13 Gray/L:XXcm	
342342.113.XX	20278-112R To 20278-112R, 1.13 Gray/L:XXcm	
342SAB.113.XX	20278-112R To Stripped, 1.13 Gray/L:XXcm	

ABC: stripped size ; XX: length (cm)

*Definition of Length: " XX "

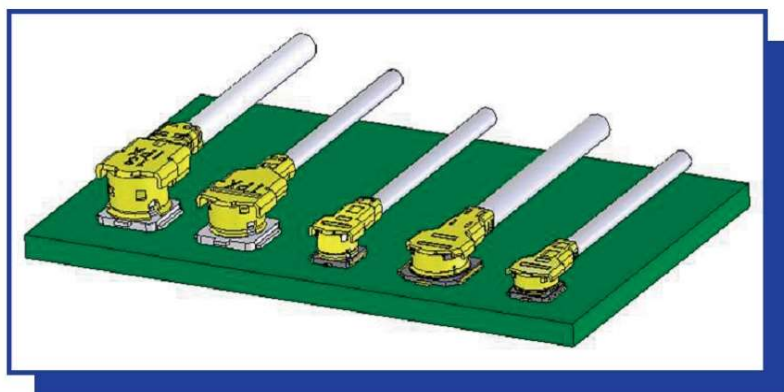
When total cable length $\leq 30\text{CM}$, the length cable is referring to exclude two terminal length of connector.
When total cable length $> 30\text{CM}$, the length cable is referring to include two terminal length of connector.

**Definition of Tolerance

Length $\leq 10\text{cm}$: $\pm 0.5\text{cm}$, Length $\leq 30\text{cm}$: $\pm 1.0\text{ cm}$, Length $\leq 50\text{cm}$: $\pm 2.0\text{ cm}$,
Length $\leq 100\text{cm}$: $\pm 2.5\text{ cm}$, Length $> 101\text{cm}$: $\pm 3.0\text{cm}$

Optional Code	A	Brass Tubing (Glued Heat Shrinkable Tube) / $\varnothing 7.5\text{mm} \times 20\text{mm}$
VSWR of Cable Assembly	1.3:1 MAX.(DC-3GHz), 1.4:1 MAX.(3-6GHz)	
Estimate of Cable Assembly loss	Cable assembly loss =Connector loss + Assembly loss + Cable loss Connector Loss: $0.08 \times \sqrt{\text{Frequency}} \times 2$ (2 connectors) Assembly Loss : $0.12 \times 2(\text{sides})$ Cable Loss: per cable attenuation (Max.) * Cable length	

MHF SERIES MICRO COAXIAL CONNECTOR



【Major Application】

- Wireless LAN Antenna
 - Cellular Phone
 - Note Book Computer
 - Game Equipment
 - Digital Appliance
 - Access Point

【Key Features】

- SMT Receptacle and Mating Plug Cable Connector
- Small form factor and low profile : 1.2mm to 2.5mm MAX. Mating Height
- Applicable Cable :
O.D.0.64mm / 0.81mm / 0.98mm / 1.13mm / 1.32mm / 1.37mm and 1.8mm Coaxial Cable
- High productivity : Easy Cable termination by “ i-Fit[®] ” without soldering
- Applicable Technology :
IEEE802.11 a/b/g/n, UWB, WiMAX, iBurst, Zigbee, Bluetooth Wireless and MIMO

【Specifications】

- Frequency Range : DC up to 6GHz (V.S.W.R. : 1.3MAX at 0.1~3GHz, 1.4MAX at 3~6GHz)
- Characteristic Impedance : 50 ohm (Nominal)
- Temperature : -40°C to +90°C
- Rated Voltage : AC 60V
- Contact Resistance : 20m ohm MAX. (Signal) and 10m ohm MAX. (Ground)
- Withstand Voltage : AC 200V
- Insulation Resistance : 500M ohm MIN. / DC 100V

【Product Overview】

MHF type Plating (Center/ Ground)	MHF Receptacle			MHF III Receptacle	MHF-A Receptacle	MHF 4 Receptacle		
	MHF Plug	MHF II Plug	MHF III Plug			MHF-A13 Plug	MHF 4 Plug	MHF 4 SMT Plug
Mating Height	2.5mm (MAX.)	2.1mm (MAX.)	1.6mm (MAX.)	1.45mm (MAX.)	1.2mm (MAX.)	1.2mm (MAX.)		
Gold / Gold	20279-001E-01 (3pads) 20441-001E-01 (4pads)	20278-1*2R-** 20351-1*2R-37	20311-011R-08	20369-001E 20367-001R	20429-001E 20428-001R	20407-001E 20448-001R-081	20462-001E	
Gold / Silver	20314-001E-01 (3pads)	20308-1*2R-13 20308-1*2R-32	NA	20312-011R-08 20312-011R-10	NA	NA	NA	NA

◆All Center contact are Gold Plated

COAXIAL CABLE

MCBL-113.50

1.13mm (Gray)
Mini-Coaxial

Features

- ✓ Frequency up to 6GHz
- ✓ Applicable connectors: SMA/IPEX MHF Series...
- ✓ High productivity



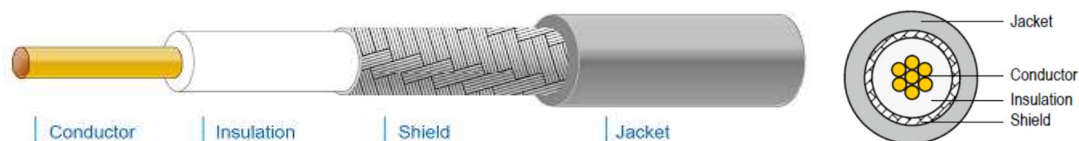
Specifications

CONSTRUCTION

ITEM	MATERIAL	DIAMETER
CENTER CONDUCTOR	Silver-Coated Copper	0.24mm
INSULATION	FEP/Clear	0.68 ± 0.02mm
BRAID SHIELD (Coverage: 90%)	Tinned-Coated Copper	0.90 ± 0.03mm
JACKET	FEP/Gray	1.13 ± 0.05mm

ELECTRICAL DATA

ITEM	SPECIFICATION
CUT-OFF FREQUENCY	6 GHz
NOM. IMPEDANCE	50 ± 3 Ohms
NOM. CAPACITANCE	96 ± 3 pF/M
NOM. VEL. OF PROP.	69%
DIELECTRIC RESISTANCE	AC 500V/Minute
TEST VOLTAGE	2.5K VDC
SHIELDING EFFECT	< -40dB
TEMPTURE	105°C (at 30V)
FREIEMCY	ATTENUATION (dB/1M)
1.0GHz	2.00
2.0GHz	3.02
2.4GHz	3.35
5.0GHz	5.02
6.0GHz	5.22

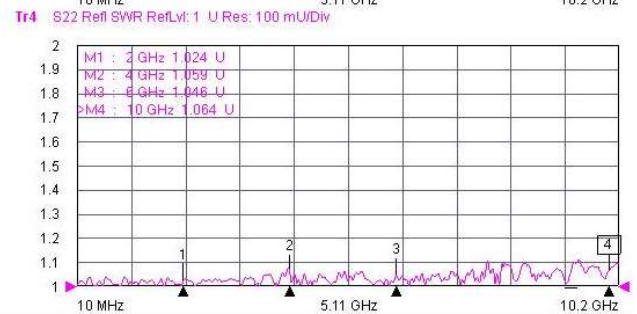
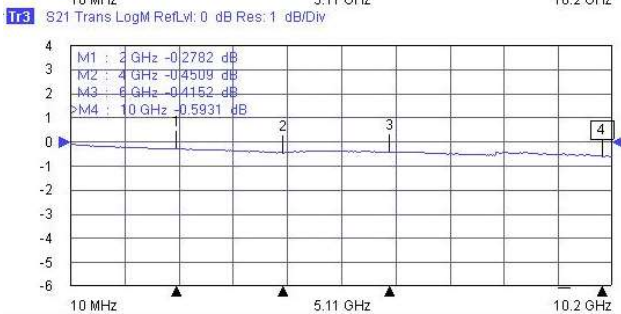
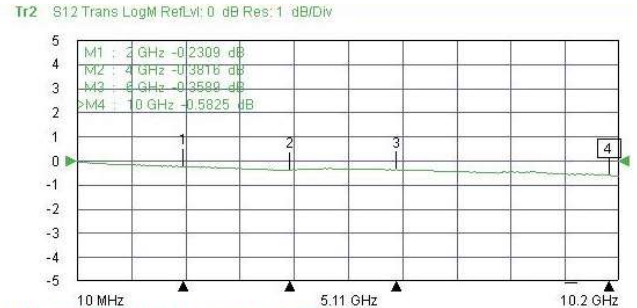
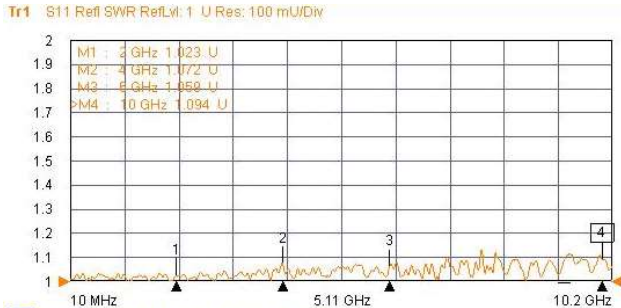


NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

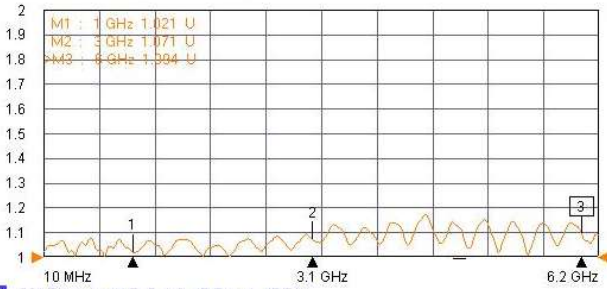


PART NUMBER	DESCRIPTION
342280.113.30	20278-112R To SMA Male, 1.13 Gray/L:30cm

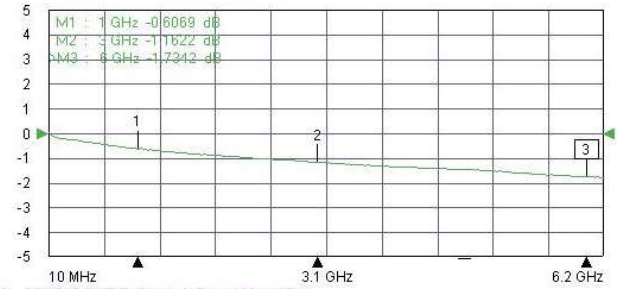


PART NUMBER	DESCRIPTION
342296.113.30	20278-112R To SMA Male, 1.13 Gray/L:30cm

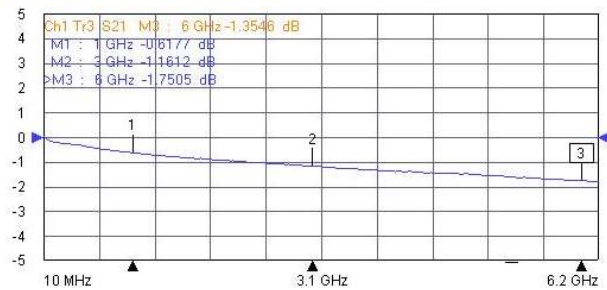
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div

