



WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)
 DONGGUAN AEON TECH CO.,LTD.(CHINA)
 SUZHOU AEON TECH CO.,LTD.(CHINA)
 AEON TECH (SHANGHAI) CO.,LTD(CHINA)
 DONGGUAN PARNER TECH CO.,LTD.(CHINA)



SPECIFICATION FOR APPROVAL

CUSTOMER: 中磊電子股份有限公司

PART NAME: RF Antenna Cable Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C147-510479-A(SSR-82480)

REV.: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Romeo 	
DATE :	7/18	

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

謙裕實業股份有限公司

Address: No. 326,Sec. 2,Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

Tel:+886-3-5714225(REP.) Fax:+ 886-3-5713853 · + 886-3-5723600

DONGGUAN AEON TECH CO.,LTD.(CHINA)

東莞台霖電子通訊有限公司

Address:Hupan Industrial District,Tai Ling Shan Town,Dong Guan City,Guangdong,China

Tel:+86-769-85655858 Fax:+86-769-85655258

SUZHOU AEON TECH CO.,LTD(CHINA)

蘇州華廣電通有限公司

Address:Limin North Road, LiLi Town,LiLi Industrial Park,LinHu Economic Zone

Wujiang City,Jiangsu Province,China

Tel:+86-512-63627980 Fax:+86-512-63627981

AEON TECH (SHANGHAI) CO.,LTD(CHINA)

普翔電子貿易(上海)有限公司

Address:Flat 501,5F,Build 27, NO.68,Guiqing Road, Huhui District, Shanghai,China

Tel:+86-21-64959151 Fax:+86-21-64959059

DONGGUAN PARNER TECH CO.,LTD.(CHINA)

東莞倍能電子有限公司

Address:Hupan Industrial District, Shida Road, Tai Ling Shan Town,

Dong Guan City, Guangdong, China

Tel:+86-769-81662366 Fax:+86-769-81602681

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RF Antenna Cable Assembly

Specification

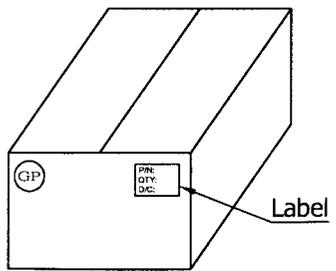
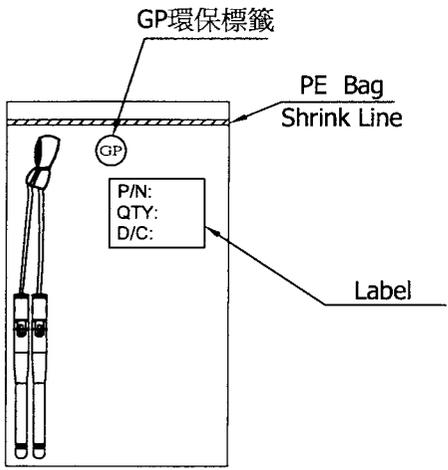
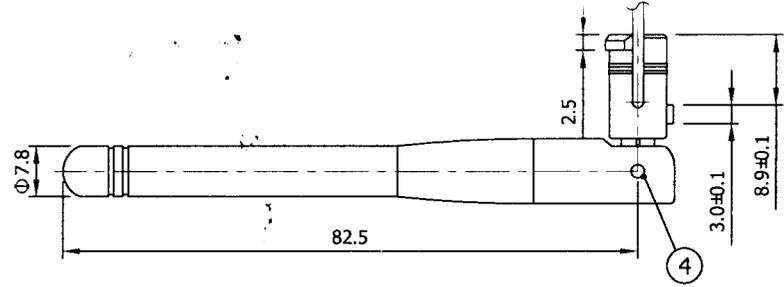
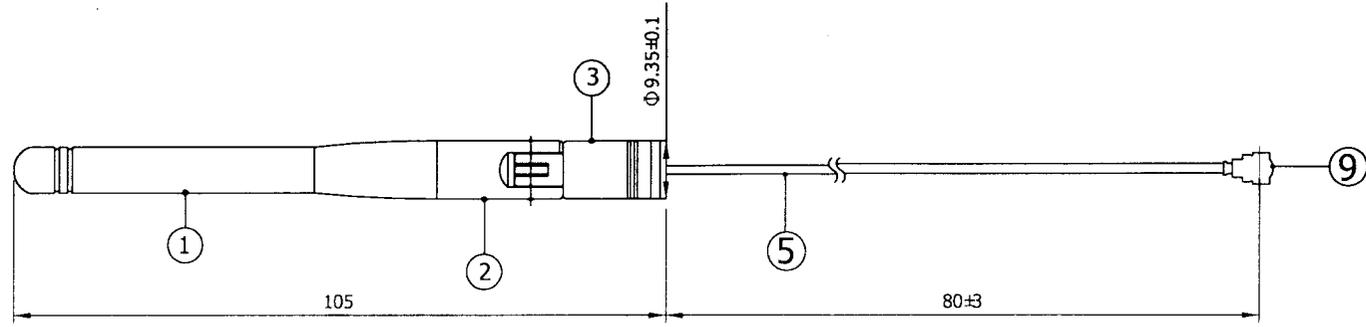
1. Electrical Properties :

- 1.1 Frequency Range.....2.4GHz ~ 2.5GHz
- 1.2 Impedance50 Ω Nominal
- 1.3 VSWR 1.92:1 Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 1.8dBi (excluding cable loss)
- 1.7 Cable Loss..... 0.3dB Max.
- 1.8 Polarization..... Linear ; Vertical
- 1.9 Admitted Power..... 1W
- 1.10 Cable..... Φ 1.13 Cable
- 1.11 Connector..... MHF

2. Physical Properties :

- 2.1 Antenna Body..... TPE
- 2.2 Antenna Base..... PC
- 2.3 Antenna Base..... PBT
- 2.4 Operating Temp. -10 $^{\circ}$ C ~ +60 $^{\circ}$ C
- 2.5 Storage Temp. -10 $^{\circ}$ C ~ +70 $^{\circ}$ C
- 2.6 Color White

REV	DATE	DESCRIPTION
X1	6/3-08	New Issue
X2	7/7-08	顏色用W.Y-058



GP標籤貼於外箱兩邊側面左上角共2PCS
標示Label貼於外箱兩邊側面共2PCS

Packing : 25 pcs/bag

NO	DESCRIPTION	QTY	REMARK
6	Connector	MHF Connector	1
5	Cable	Φ1.13 Coaxial Cable	1
4	Rivet	POM ; Color : White	2
3	Antenna Base	PBT ; Color : White	1
2	Antenna Base	PC ; Color : White	1
1	Antenna Body	TPE ; Color : White	1

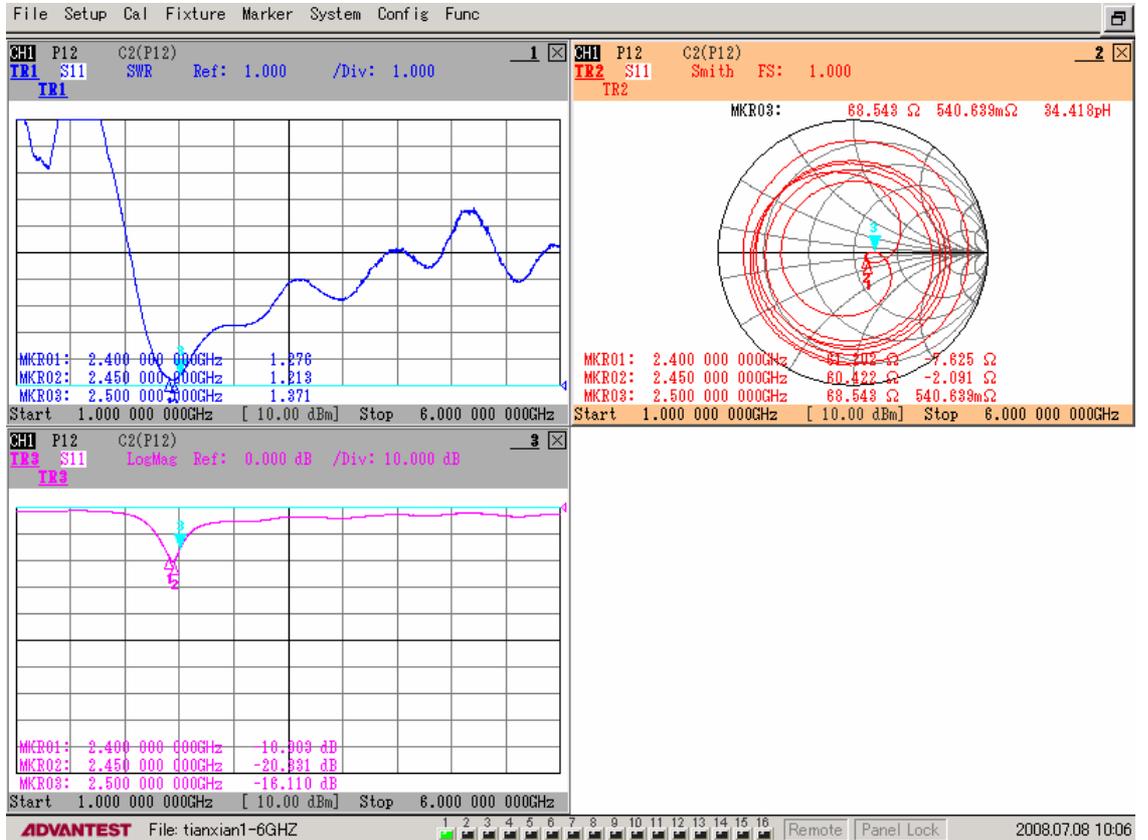
CUSTOMER'S SINGATURE	xx. ±5	APPROVED	CUSTOMER: 中磊
	x. ±3.0	徐威力 7/1/08	
	.x ±1.0	CHECKED	
	.xx ±0.5		
	.xxx ±0.1	DRAWING	
			PART NO :
			PARTNAME: RF Antenna Cable Assembly
			W.Y P/NO : C147-510479-A
			REV UNIT FILE : SSR-82480
			X2 m/m SHEET : 1/1

M.gear Wha Yu Group

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RF Antenna Cable Assembly

P/NO : C147-510479 SPEC : 2.4~2.5GHz NO:SSR-82480



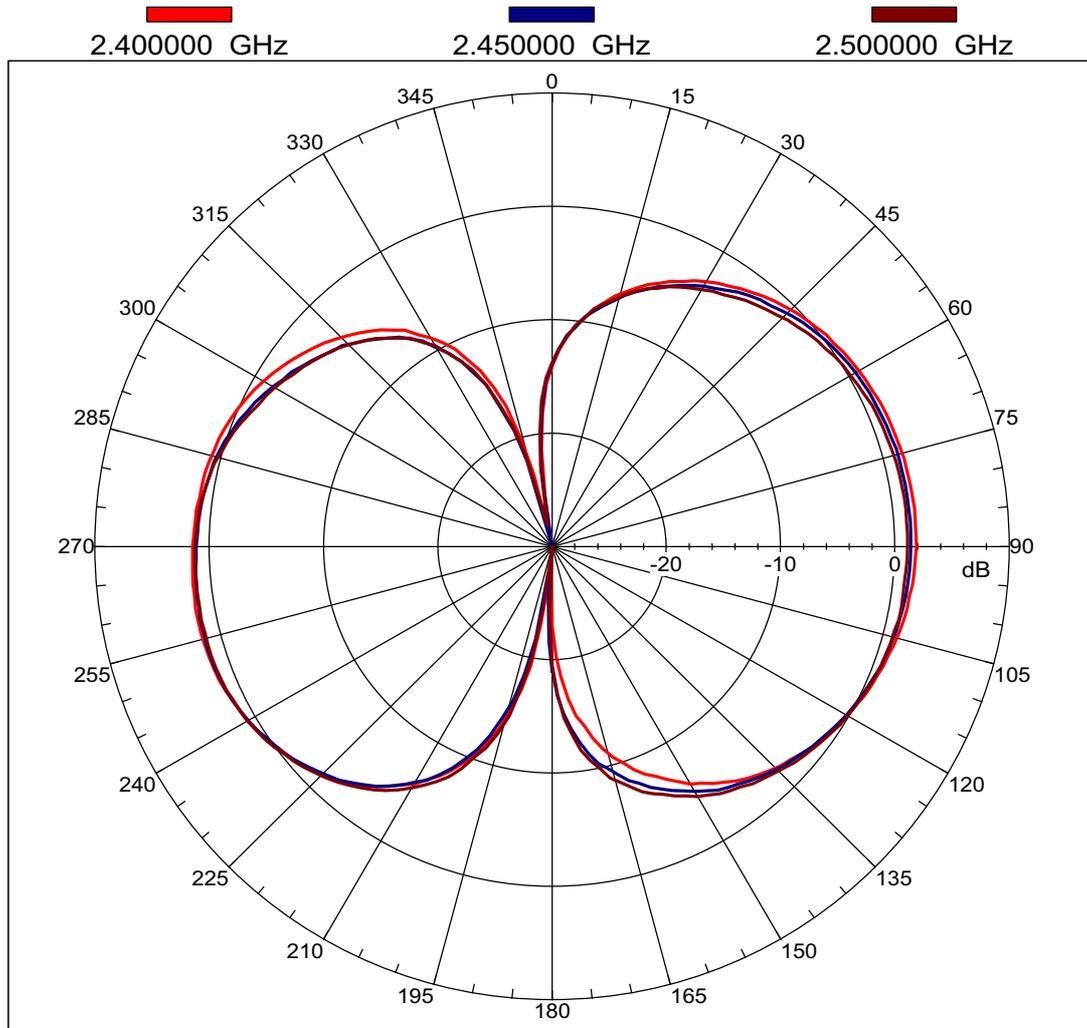


Wha Yu Group

RF Antenna Cable Assembly

P/NO : C147-510479 SPEC : 2.4~2.5GHz NO:SSR-82480

Far-field amplitude of C147-510479-A(SSR-82480) H.nsi



2008.7.7

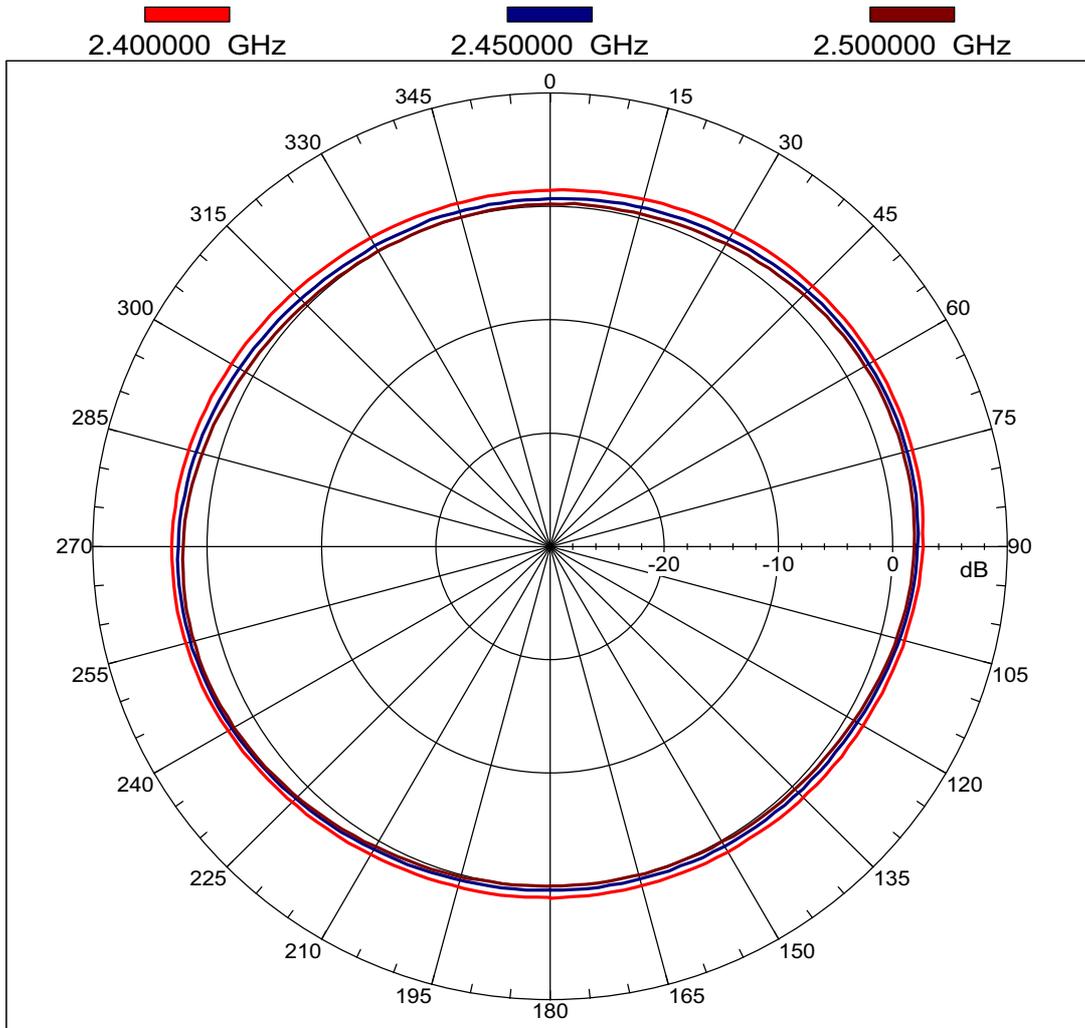


Wha Yu
Group

RF Antenna Cable Assembly

P/NO : C147-510479 SPEC : 2.4~2.5GHz NO:SSR-82480

Far-field amplitude of C147-510479-A(SSR-82480) V.nsi



2008.7.7

Date : 2005/02/02

Our Spec. No. WS05-M016

MESSRS.

SPECIFICATION
FOR
HIGH FREQUENCY COAXIAL CABLE
"KHCX - 32AWG - SB - TA" GRAY

SHOWA ELECTRIC WIRE & CABLE CO., LTD.

TORANOMON

TOKYO JAPAN

T. Mori

T. Mori
Manager, Engineering Section
Engineering Dept.
Electronic Wire Business Unit

1. 適用(SCOPE)

本仕様書は電子機器などの内部配線に使用される細径同軸“KHCX-32AWG-SB-TA”の構造と特性について定める。

This specification covers the construction and characteristics of coaxial cable “KHCX-32AWG-SB-TA” for internal wiring of electronic equipment.

2. ケーブル型名の説明 (EXPLANATION OF CABLE TYPE)

KHCX-32AWG-SB-TA

(1) (2) (3) (4)

(1) ケーブル略称 (Cable Abbreviation)

(2) 導体サイズ (Conductor Size)

(3) Inner Conductor Type (4) Outer Conductor Type.

3. 構造(CONSTRUCTION)

項目 Item		要求特性 Requirement
内部導体 Inner conductor	材質 Material	銀めっき軟銅線 Silver coated annealed copper wire
	構成 Stranding	7/0.08mm
	外径 Diameter	標準 0.24mm Nom. 0.24mm
絶縁体 Insulation	材質 Material	FEP
	色別 Color	自然色 Natural
	厚さ Thickness	標準 0.22mm Nom. 0.22mm
	外径 Diameter	0.68 +0.04/ -0.02mm
外部導体 Outer conductor	材質 Material	錫めっき銅合金線編組 Tinned copper alloy wire braid shield
	構成 Stranding	16/4/0.05 mm
	編組密度 Coverage	Approx. 90%
シース Sheath	材質 Material	FEP
	色別 Color	灰・白・黒 Gray・White・Black
	厚さ Thickness	標準 0.10mm Nom. 0.10mm
仕上外径 Overall diameter		1.13mm +0.08/ -0.05mm
概算質量 Approximate mass		3 kg/km

4. 特性 (CHARACTERISTICS)

項目 Item	単位 Unit	要求特性 Requirements
導体抵抗 Conductor Resistance	Ω/km	597 以下 (20°C) Max. 520 (at 20°C)
絶縁抵抗 Insulation Resistance	$\text{M}\Omega\text{km}$	1,500 以上 (DC 500V 1 分間充電後, 20°C) Min. 1,500 (After charge DC 500V for 1 min. at 20°C)
耐電圧 Dielectric Strength	-	絶縁体 : AC.1.5kV/0.15 秒間 (スパークテスト) Dielectric core : No breakdown at AC.1.5kV for 0.15sec by spark test.
		シース : AC.1.5kV/0.15 秒間 (スパークテスト) Jacket : No breakdown at AC.1.5kV for 0.15sec by spark test.
		内部導体-外部導体間 : AC.500V/1 分間 No breakdown at AC.500V for 1 min between outer conductor and inner conductor.
静電容量 Capacitance	pF/m	標準 98 (at 1kHz) Nom. 98 (at 1kHz)
特性インピーダンス Characteristic Impedance	Ω	50 ± 2 (at TDR)
減衰量 Attenuation	dB/m	2.0GHz : 2.9 以下 Max.2.9 2.4GHz : 3.2 以下 Max.3.2 3.0GHz : 3.7 以下 Max.3.7 4.0GHz : 4.3 以下 Max.4.3 5.0GHz : 4.8 以下 Max.4.8 6.0GHz : 5.3 以下 Max.5.3
VSWR	--	2.4~2.5GHz : 1.20 以下 Max.1.20 4.8~6.0GHz : 1.40 以下 Max.1.40
耐はんだ性 Heat resistance for solder	--	絶縁体およびシースの寸法変化は 0.2mm 以下のこと。 Shrink and expansion of dielectric core or jacket should not be more than 0.2mm. 試験条件(test condition) : 255°C \pm 5°C * 3 sec.

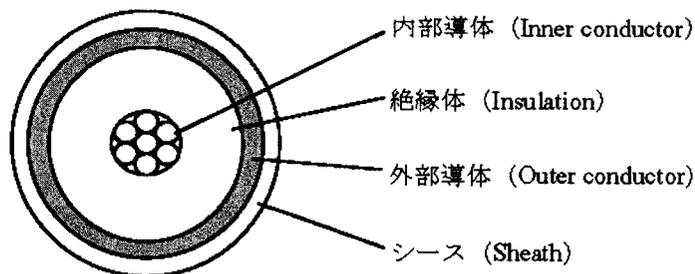


図 1. ケーブル構造図

Fig.1. Cable Cross-Section



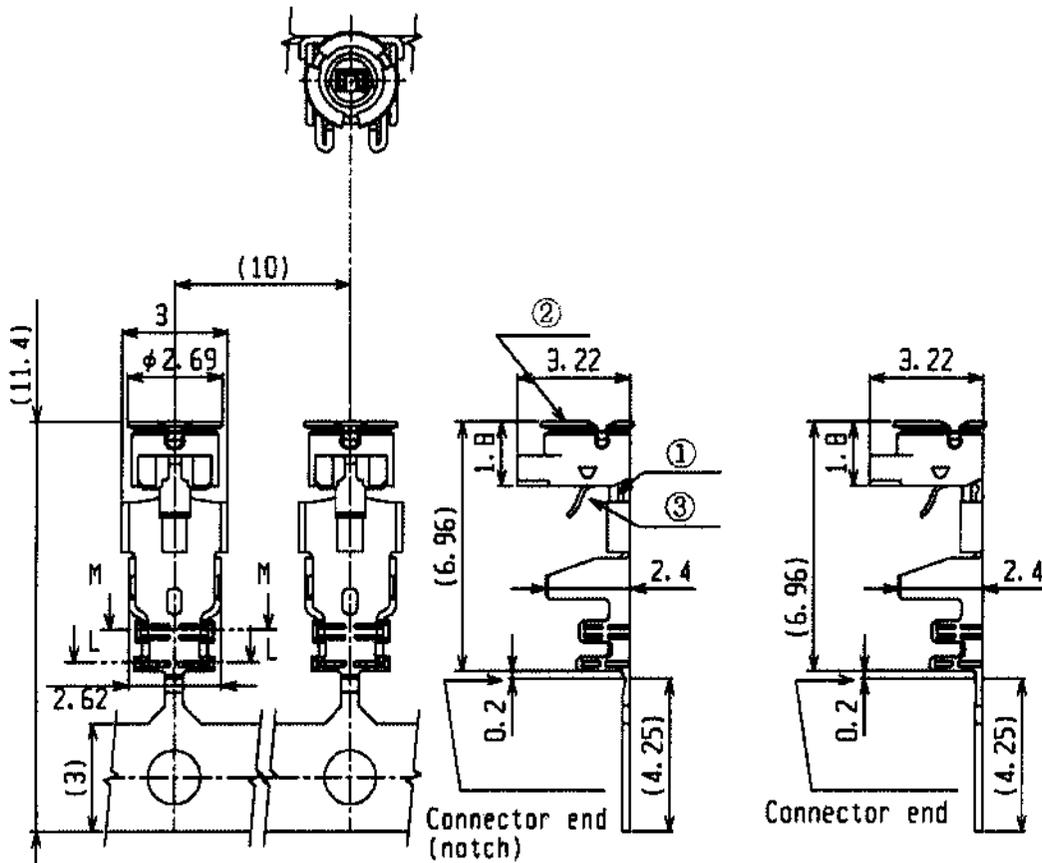
華裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

華裕料號 Whyu P/N	Z101-02110002-A1	產品名稱 Product Name	MHF Plug for ϕ 1.13 Coaxial Cable
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結構圖面



材質成份								表面處理
1	絕緣	PBT	Polybutylene Terephthalate(UL 94V-0)					Black
2	外殼	Phos. Bronze	Cu	Sn	P	Zn	Pb	鍍金 0.05 μ m
3	中心夾持	Phos. Bronze	Cu	Sn	P	Zn	Pb	鍍金 0.1 μ m

Remark : 插拔次數 30 次



SGS Test Report

Product :RF Antenna Cable Assembly

Contents

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1	Cable	Φ1.13 Cable CE/2007/C0427	P.11~15
2	Antenna Body	TPE KA/2007/A2600R1	P.16~20
		Color:White SHR08011893062022	P.29~33
3	Antenna Base	PC GZ0710157867/CHEM	P.21~25
		Color:White SHR08011893062022	P.29~33
4	Antenna Base	PBT SH7112696/CHEM	P.26~28
		Color:White SHR08011893062022	P.29~33
5	Rivet	POM;Color:White SH8015102/CHEM	P.43~45
		SHR08011893062022	P.29~33
6	Ground Tube	銅材 SH7146305/CHEM	P.34~36
		鍍錫 SH7146308/CHEM	P.37~39
		POM SH7146306/CHEM	P.40~42
7	Connector	MHF CE/2008/31216	P.46~50
		CE/2008/31207	P.51~60
		CE/2008/31217	P.61~65

Result for RoHS :PASS