



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

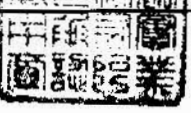
PART NAME: RF Antenna Cable Assembly

PART NO.: 61720186WY

REVISION:

W. Y. P/NO.: C147-510445-A(SSR-80256)

REV.: XI

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	周東生 	
DATE :	1/23/08 	

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RF Antenna Cable Assembly

Specification

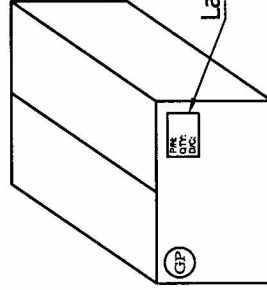
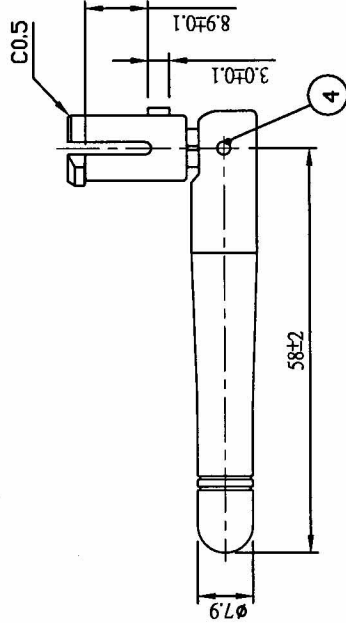
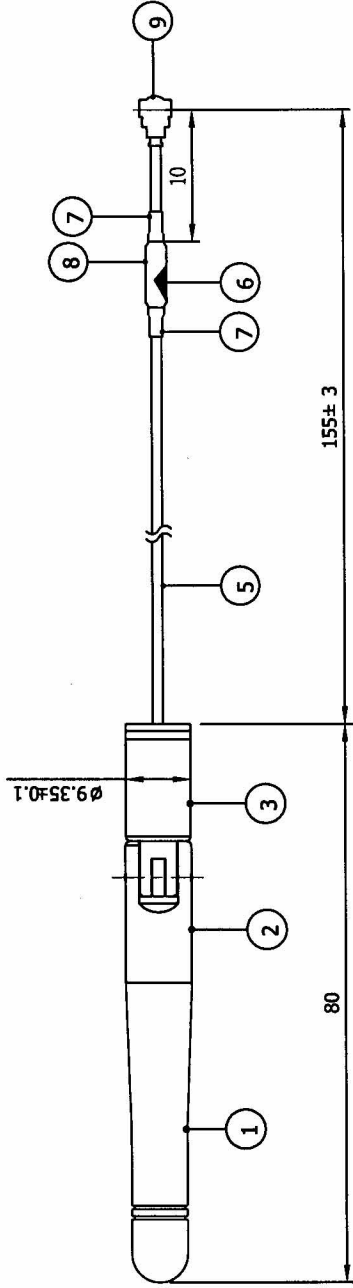
1. Electrical Properties :

- 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..... 0.7dB Max.
- 1.8 Polarization..... Linear ; Vertical
- 1.9 Admitted Power..... 1W
- 1.10 Cable..... Φ 1.13 Coaxial Cable
- 1.11 Connector.....MHF
- 1.12 Core.....RH4*10*2 (mm)

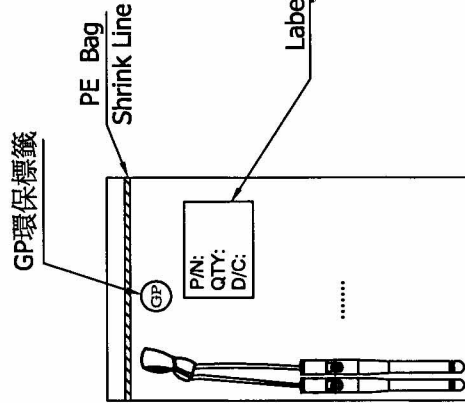
2. Physical Properties :

- 2.1 Antenna Cover..... 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 Black

REV	DATE	DESCRIPTION
X1	1/17-08	New Issue



GP標鐵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
9	Connector	1	
8	Tube	1	
7	Tube	2	
6	Core	1	
5	Cable	1	
4	Rivet	2	
3	Antenna Base	1	
2	Antenna Base	1	
1	Antenna Cap	1	

APPROVED		CUSTOMER: 中磊	
XX	±5	PART NO :	61720186WY
X	±3.0	PARTNAME:	RF Antenna Cable Assembly
.X	±1.0	W.Y P/NO :	C147-510445-A
.XX	±0.5	REV	FILE : SSR-80256
.XXX	±0.1	UNIT	SHEET : 1/1
⊕		X1	m/m

CUSTOMER'S SIGNATURE

ll.gear Wha Yu Group

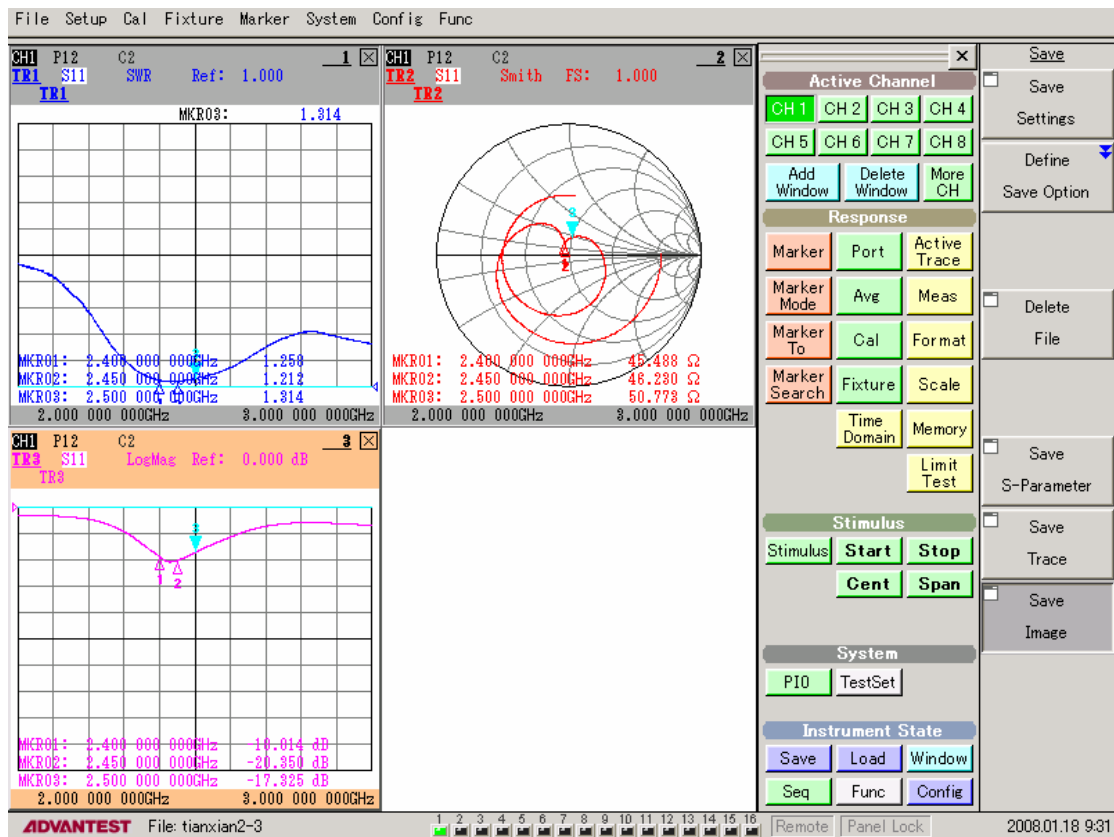
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RF Antenna Cable Assembly

P/NO: C147-510445-A

SPEC:2.4~2.5GHz

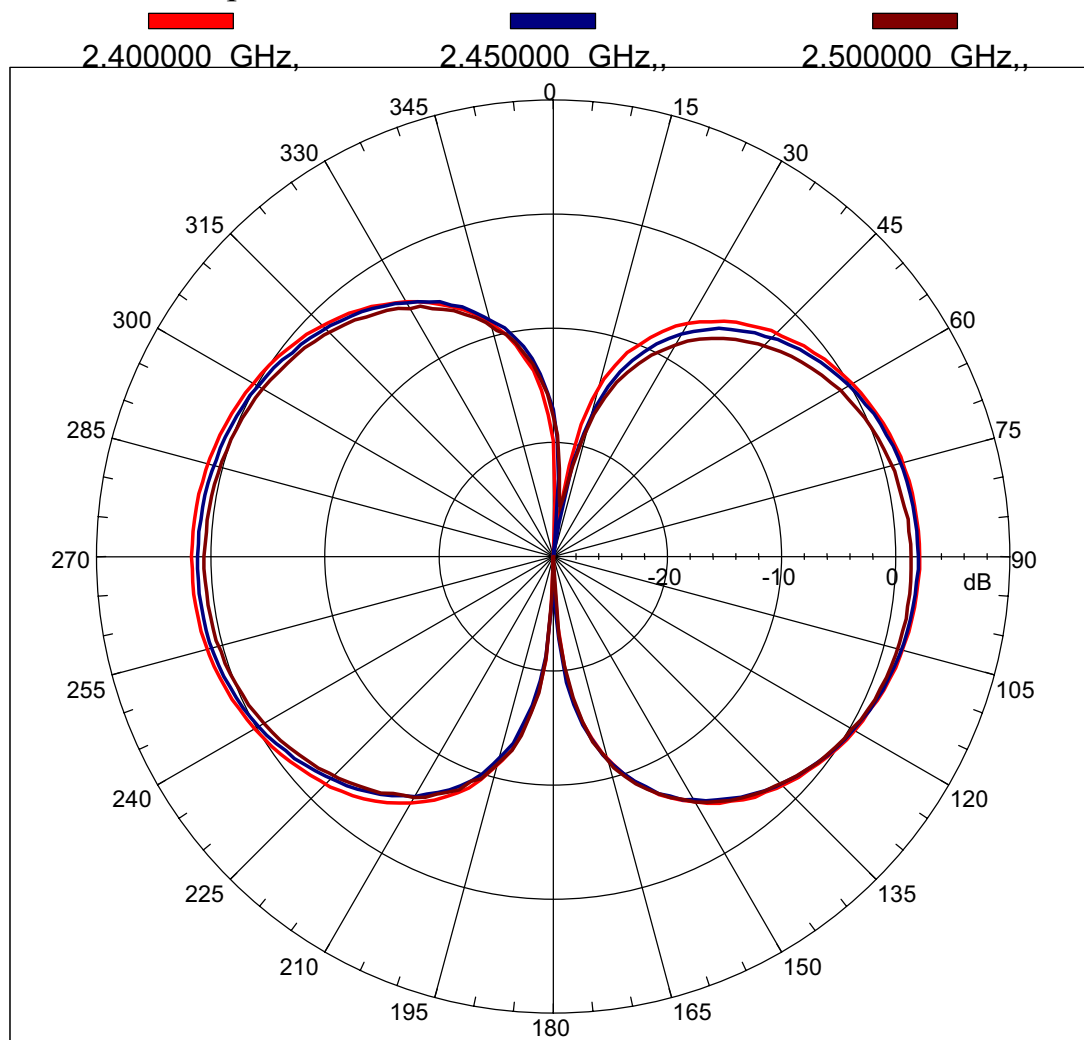
NO:SSR-80256



RF Antenna Assembly

P/NO:C147-510445-A SPEC:2.4~2.5G NO:SSR-80256

Far-field amplitude of C147-510445-A SSR-80256V.nsi

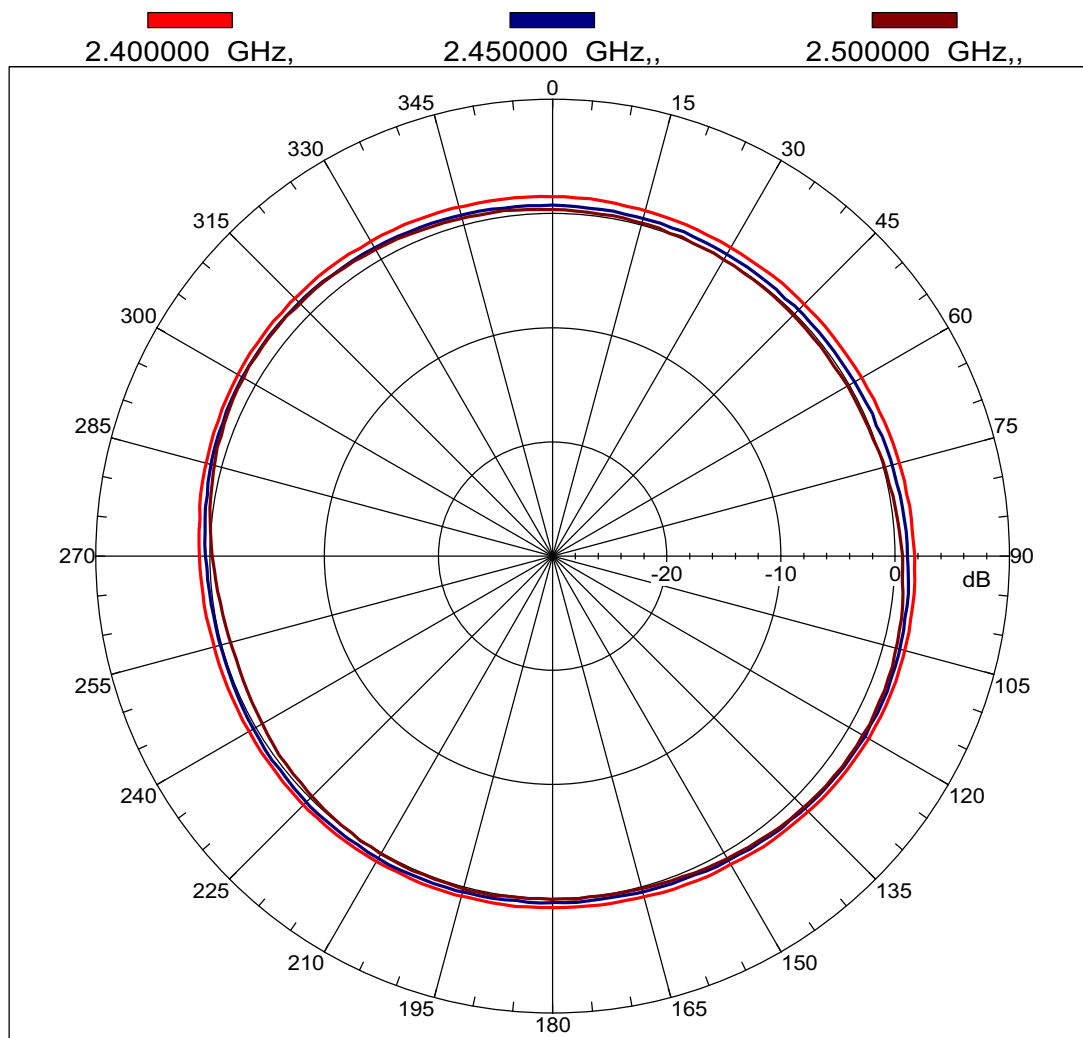


2008/1/18

RF Antenna Assembly

P/NO:C147-510445-A SPEC:2.4~2.5G NO:SSR-80256

Far-field amplitude of C147-510445-A SSR-80256H.nsi



2008/1/18

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	銀めつき軟銅線 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	錫めつき銅合金線編組 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℃) Max. 520 (at 20℃)
絶縁抵抗 Insulation Resistance	$\text{M}\Omega\text{km}$	1,500 以上 (DC 500V 1 分間充電後, 20℃) Min. 1,500 (After charge DC 500V for 1 min. at 20℃)
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) : $255^\circ\text{C} \pm 5^\circ\text{C} * 3 \text{ sec.}$

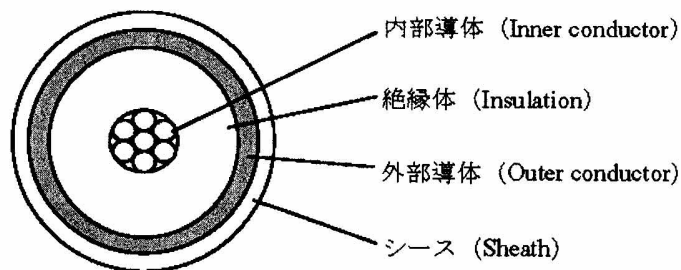


図 1. ケーブル構造図

Fig.1. Cable Cross-Section



譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

譚裕料號 Whayu P/N	Z101-02110002-A1	產品名稱 Product Name	MHF Plug for ϕ 1.13 Coaxial Cable	
結構圖面				
Technical drawing of the MHF Plug connector. The drawing includes a top view, a side view, and two cross-sectional views. Key dimensions are labeled: (11.4), (10), 3, ϕ 2.69, 2.62, (3), 2.4, 3.22, 1.8, (6.96), 0.2, (4.25), and 2.4. The cross-sectional views are labeled "Connector end (notch)".				
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				