



WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)
DONGGUAN AEON TECH CO.,LTD.(CHINA)
TAI HWA ELECTRONIC CO., LTD.(CHINA)
SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA)
SU ZHOU AEON TECH CO., LTD. (CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 中磊科技股份有限公司

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C147-510417-A (SSR-73133)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	 	
DATE :	10/19/07	

WHA YU GROUP

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RF Antenna Assembly

Specification

1. Electrical Properties :

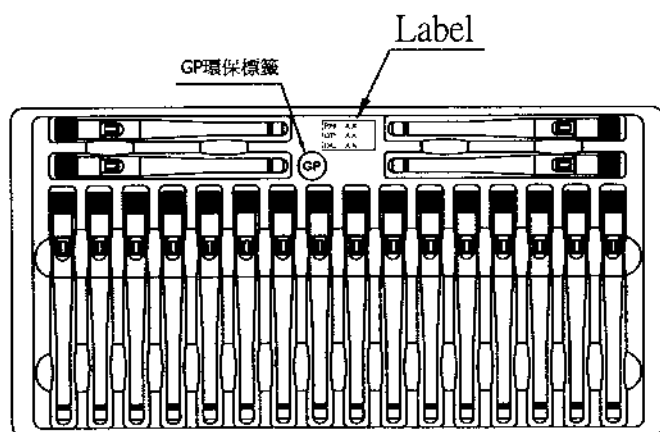
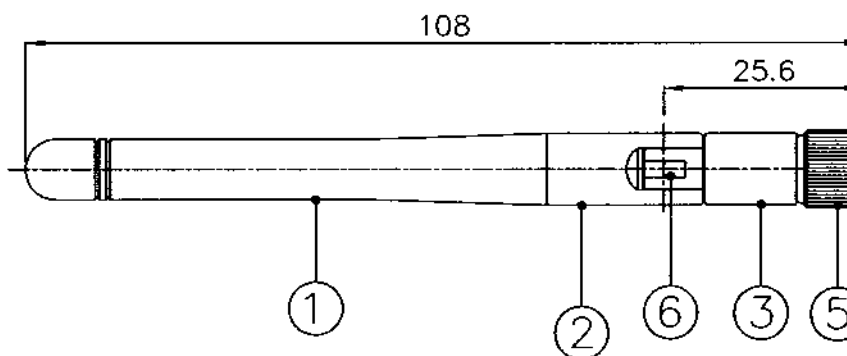
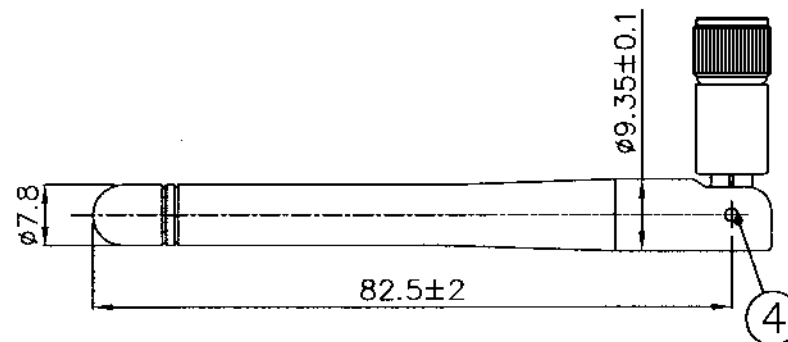
- 1.1 Frequency Range..... 315MHz ~ 320MHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 :1Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain..... 1.8dBi typ.
- 1.7 Polarization..... Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable..... RG-178 Coaxial Cable
- 1.10 Connector..... SMA Plug Reverse

2. Physical Properties :

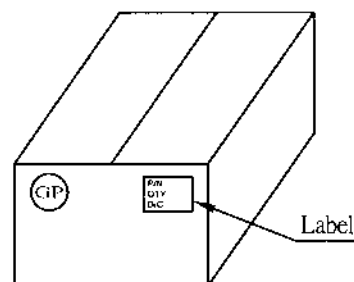
- 2.1 Antenna Cover..... TPE
- 2.2 Antenna Base..... PC
- 2.3 Antenna Base..... PBT
- 2.4 Operating Temp. -10°C ~ +60°C
- 2.5 Storage Temp. -10°C ~ +70°C
- 2.6 Color White

CG-

REV	DATE	DESCRIPTION
XI	10/19-2007	New Issue



Packing: 每Tray盤裝20PCS成品



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

6	Cable	RG-178, Translucent Brown; 50 Ω	1	
5	Connector	SMA Straight Plug/Reverse	1	
4	Rivet	POM, White	2	
3	Antenna Base	PBT; Color:White	1	
2	Antenna Base	PC; Color:White	1	
1	Antenna Cover	TPE; Color:White	1	
NO	DESCRIPTION		QTY	REMARK

CUSTOMER'S SIGNATURE

XX	±5	APPROVED
X	±3.0	CHECKED
.X	±1.0	
.XX	±0.5	
.XXX	±0.1	DRAWING
鄧孟伶		

CUSTOMER: 中 磊		
PART NO. :		
PARTNAME: RF Antenna Assembly		
W.Y P/NO. : C1417-510417-A		
REV	UNIT	FILE
XI	m/m	SHEET: 1/1

M.gear Wha Yu Group

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Helix Antenna

V1.00

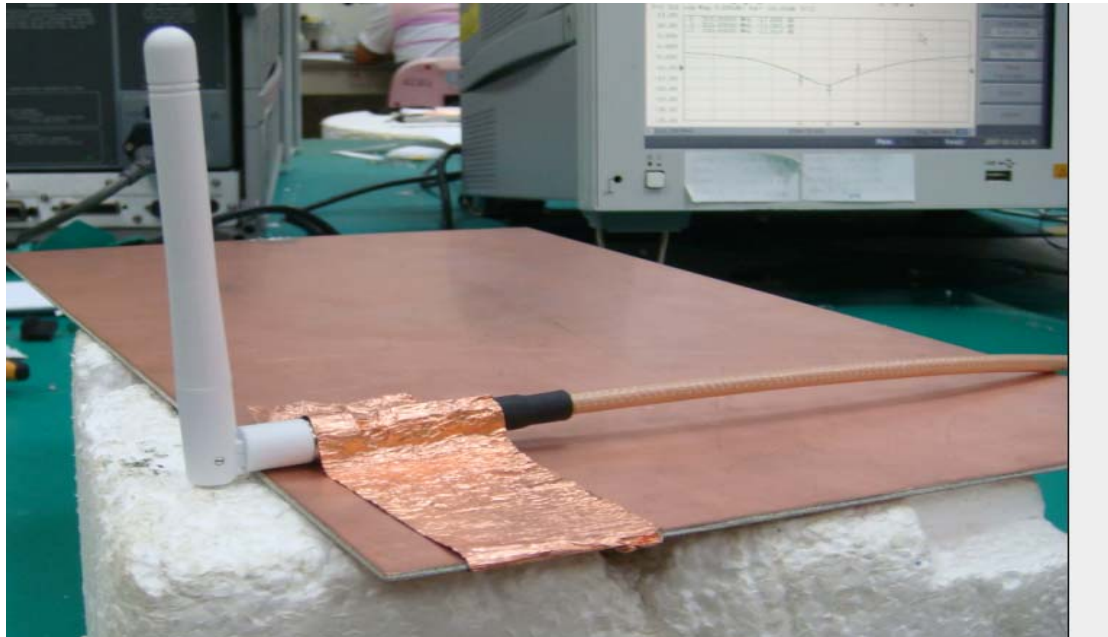
Document Number	SSR73133
1 st Released Date	2007/10/12
Last Released Date	
Author	Allen Ding
Review by	Romeo Chou

1.1 Antenna Appearance



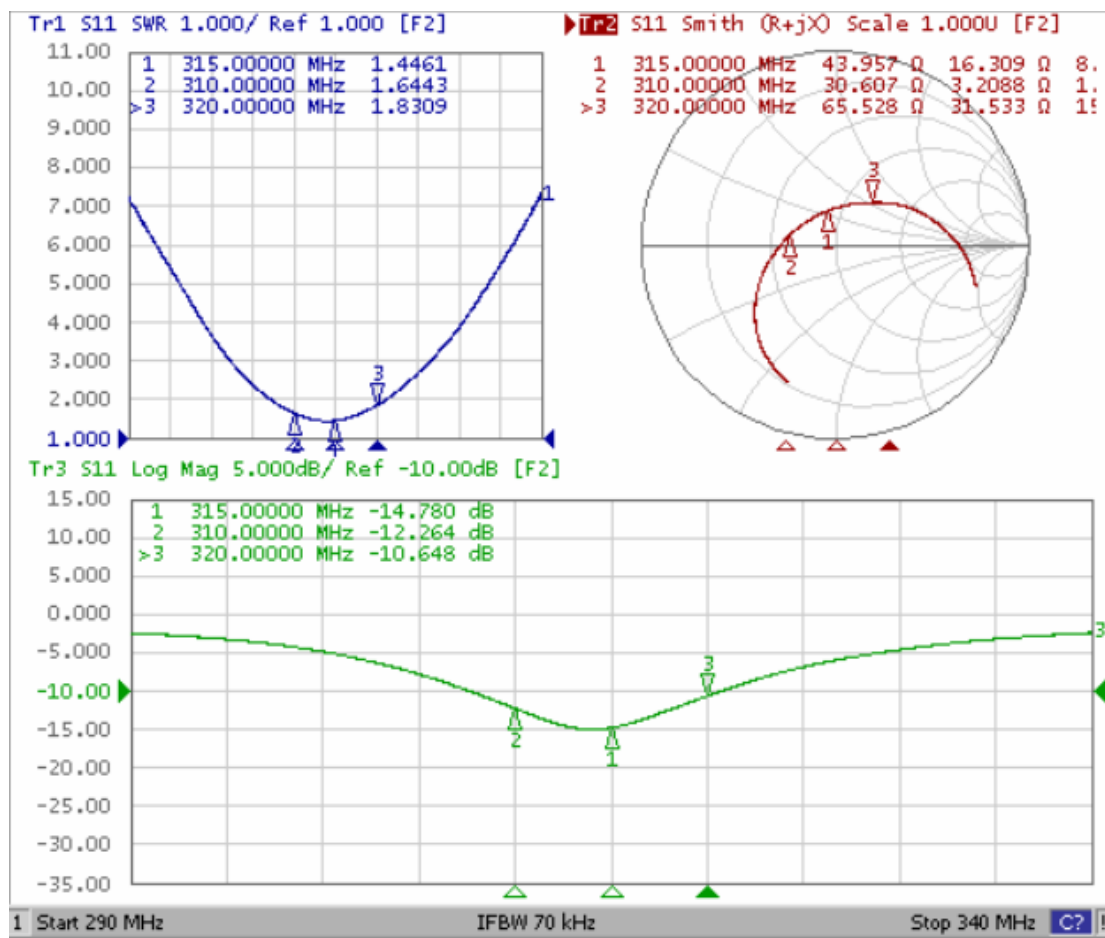
Frequency Range:	315Mhz (BW=8Mhz)
Impedance:	50 Ω
VSWR:	<2.0
Peak Gain:	1.8dBi typ.
HPBW/H:	TDB
HPBW/E:	TDB
Polarization:	Linear; Vertical
Connector:	PLUG REVERSE
Extended Cable:	TDB
Weight:	TDB
Radome Material:	TDB

1.2 Measurement & place type



1.5 Return Loss Test Result

310~320MHz ; VSWR <2.0



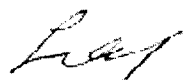
PRODUCT SPECIFICATION	ISSUED DATE	July.12, 2000	PAGE	1/2
	REVISION		REVISION NO.	

PRODUCT NAME : Coaxial Cable
RATING : -55℃ ~ 200℃
ITEM : RG 178 B/U

No.	Revised Date	Revised Details	Page	Report

REPORTED BY :

APPROVED BY :



Q.C Engineer HOON LEE



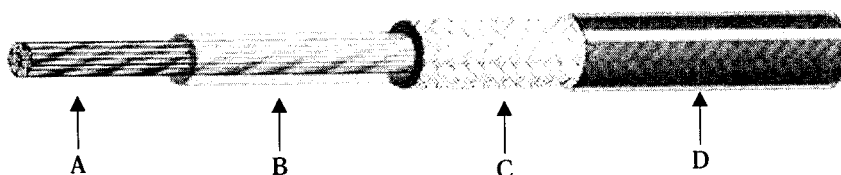
Q.C Manager SOON-MOK SHIN

PRODUCT SPECIFICATION	ISSUED DATE	July.12, 2000	PAGE	2/2
	REVISION		REVISION NO.	

1. APPLICATIONS

This specification is applies to Coaxial Cable manufactured by the YOUNG CHANG SILICONE CO.,LTD

2. STRUCTURE



- A. Conductor: SCCS
- B. Insulation : PFA
- C. Shield : Silver-Plated Copper
- D. Jacket : FEP

3. DIMENSION

Conductor (SCCS)			Insulation		Shield		Jacket	
Structure	Cross sectional area	Diameter	Material	Diameter	Material	Diameter	Material	Diameter
Q'ty/mmφ	mm ² (SQ)	mmφ		mmφ		mmφ		mmφ
7/0.102	0.06	0.30	PFA	0.84 ± 0.05	SPC	1.25	FEP	1.80 ± 0.10

4. ELECTRIC PROPERTIES

Impedance	Capacitance	Maximum Attenuation (dB/100ft)				Dielectric Sterngth
		100Mhz	400Mhz	1Ghz	3Ghz	
ohms	pF/ft(Max)					V/1min
50 ± 2	32	16.0	33.0	52.0	94.0	2000



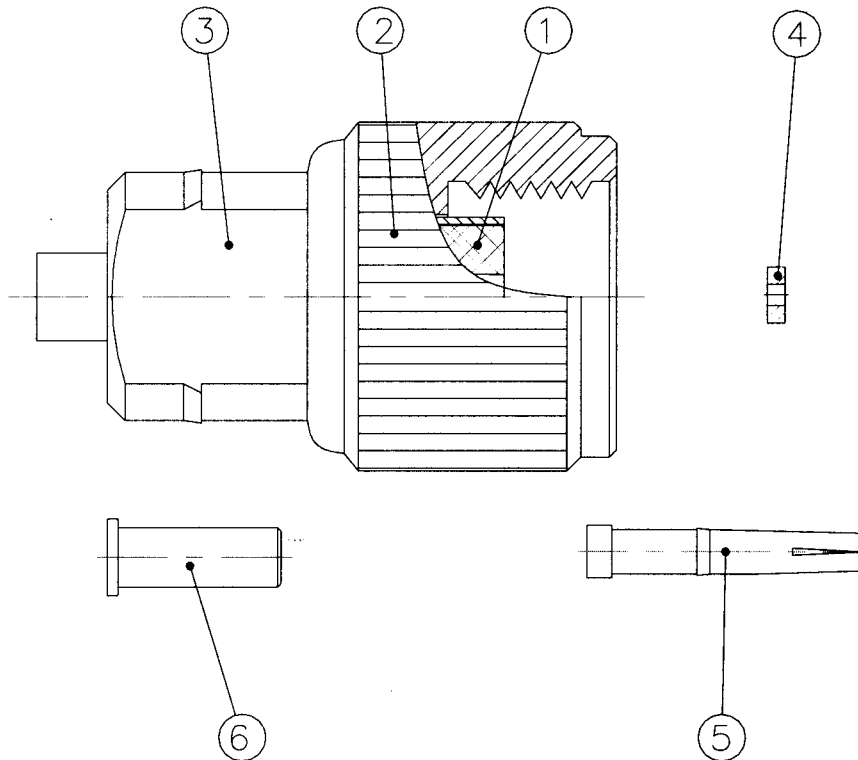
華裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

華裕料號 Whayu P/N	100-2001110-AZ	產品名稱 Product Name	SMA Plug Reverse Straight for RG-178
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結構圖面



材質成份

表面處理

1	絕緣體	Teflon	PTFE						N/A
2	外殼	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳
3	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳
4	絕緣體	Teflon	PTFE						N/A
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb		鍍金
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳

Remark :



ET-QA-0017-A2