

RF Antenna Cable Assembly

Specification

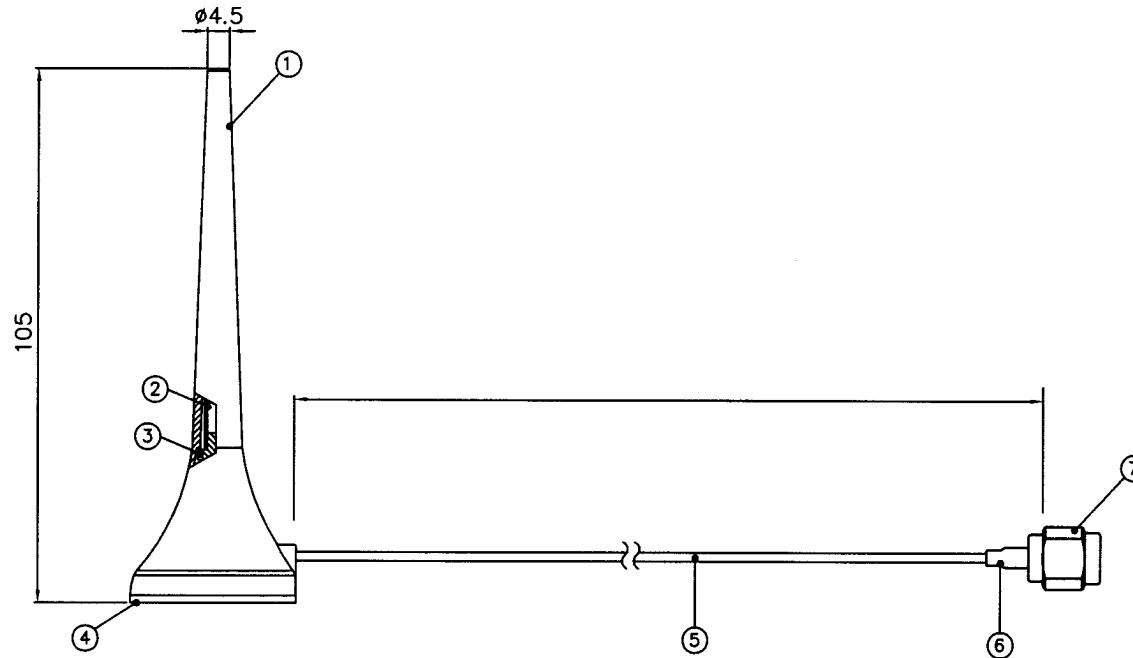
1. Electrical Properties :

- 1.1 Frequency Rang..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 Max.
- 1.4 Return Loss..... -10dB Maximum
- 1.5 Electrical Wave..... $1/2 \lambda$ Diople
- 1.6 Gain..... 1.8 dBi
- 1.7 Admitted Power..... 1W

2. Physical Properties :

- 2.1 Cable..... RG-174 Coaxial Cable
- 2.2 Antenna Cover..... TPE
- 2.3 Antenna Base..... PC
- 2.4 Operating Temp. $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$
- 2.5 Storage Temp. $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- 2.6 Color Black
- 2.7 Connector SMA Plug Reverse

REV	DATE	DESCRIPTION
X1	08/19/2004	New Issue
X2	08/27/2004	Changed Cable Length



7	Connector	SMA Plug Reverse	1	
6	Tube	Heat Shrink Tube	1	
5	Cable	RG-174 Cable	1	
4	Chassis	ABS Color : Black	2	
3	Insulator	POM , White	1	
2	Ground Tube	Brass ; Ni Plated	1	
1	Antenna Body	ABS Color : Black	1	
NO	DESCRIPTION		QTY	REMARK

CUSTOMER'S SIGNATURE

XX.	±3.0	APPROVED
X.	±2.0	CHECKED
.X	±1.0	
.XX	±0.5	
.XXX	±0.1	DRAWING
⊙		

CUSTOMER:

PART NO :

PARTNAME: External Antenna for 2.4G Dipole

W.Y P/NO : C660-510025-A

REV UNIT FILE :

X2 m/m SHEET : 1/1



Wha Yu
INDUSTRIAL CO.,LTD.

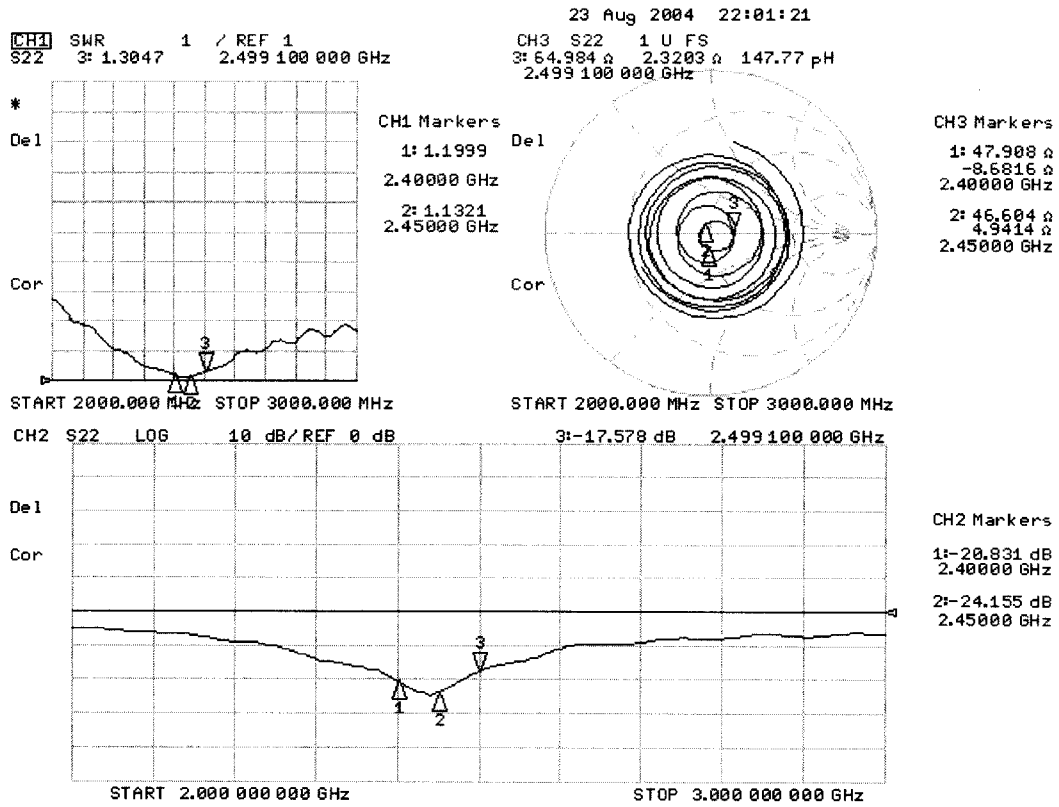
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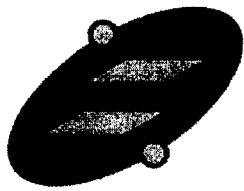


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RF Antenna Assembly
P/NO :C660-510025-A SPEC : 2.4GHz



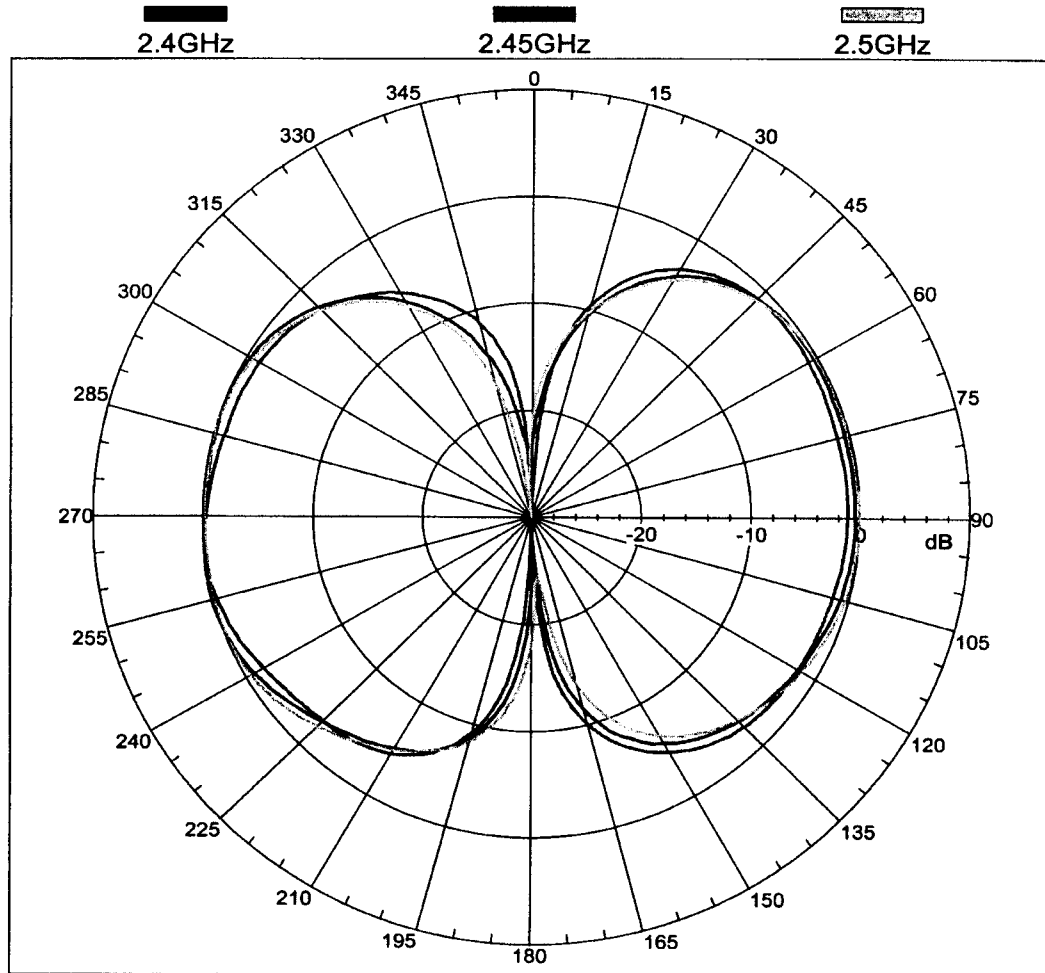
8/24/2004

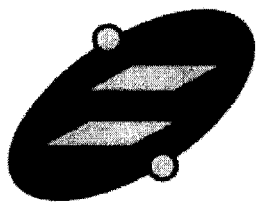


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Far-field amplitude of test-e3.nsi

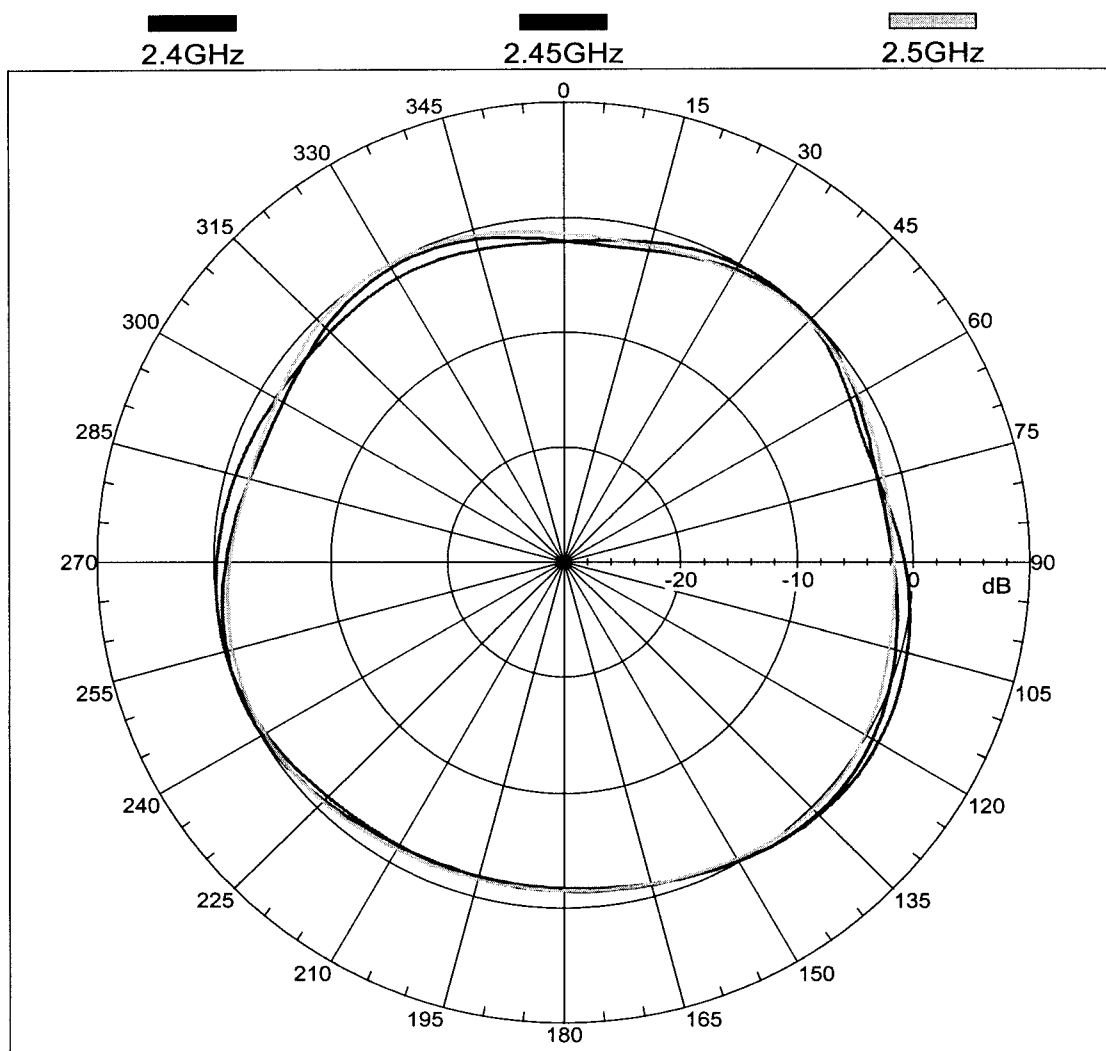




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Far-field amplitude of test-h3.nsi



Messrs:

Standard: RG-174/U 7/0.16MM X 1C

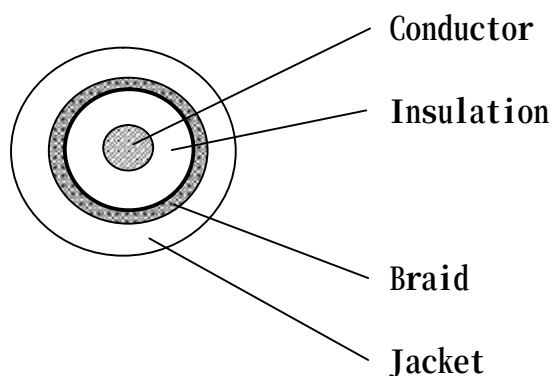
CONSTRUCTION:

ITEM		UNIT	RG-174/U
No. of Wire		P, C	1C
Conductor	Material	—	Tinned copper Wire
	Size	No./mm	7/0.16
Insulation	Material	—	PE
	Thickness	mm	(NOM.) 0.5
	O.D	mm	(NOM.) 1.5
Braid Shield	Material	—	Tinned copper Wire
	Coverage	%	95 ↑ (6/14 / 0.1mm)
Jacket	Material	—	PVC
	O.D	mm	(NOM.) 2.5
Temperature Rate °C			-40 to +80
Marking		RG-174/U COAXIAL CABLE 50Ω COMMATE	

ELECTRICAL PROPERTIES (20°C):

ITEM	UNIT	
A.C Voltage test	KV/Min.	4.5/1
Impedance	Ω	50+-2

Attenuation (nom.)	
MHz	dB/100ft
10	3.3
50	5.8
100	8.4
200	12.5
400	19
900	31
1000	34
1800	49.4
2345	53



* HP 8714A Vector Network Analyzer

Commate	DESIGN	REVISION		DATE
				
Spec. No:S-336950490011A4	APPROVED			
				



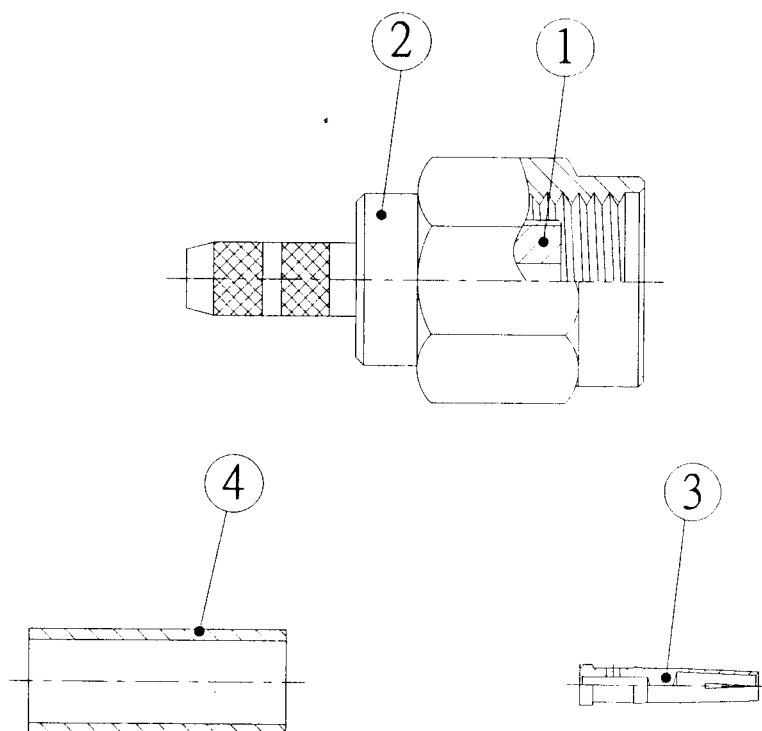
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Connector 材質證明書

譚裕料號 Whayu P/N	100-2001023-AZ	產品名稱 Product Name	SMA Straight Plug/Reverse for RG-316
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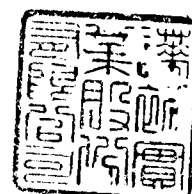
結構圖面



材質成份								表面處理
1	絕緣	Teflon	PTFE					N/A
2	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn	鍍金
3	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb	鍍金
4	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn	鍍金

Remark :

請蓋公司章



SGS Test Report

Product : RF Antenna

Contents

No	Description		Report No.	Page
1	Cable	RG-174	CE/2005/B4386 CE/2005/B4391 CE/2005/B4445 CE/2005/B4446	P.9~20
2	Antenna Body Chassis	ABS	KE/2006/10288 2027056/EC GZSCR050637293/LP	P.21~26
3	Connector	SMA Plug Reverse	SH570049/CHEM GZML060201325 KA/2006/20922A-01	P.27~32
4	Ground Tube	Ni Plated + POM	CE/2005/96120 CE/2005/96111	P.33~38
5	H.S Tube	Heat Shrink Tube	SH6039843/CHEM CE/2006/20175	P.39~57

Result For RoHS : PASS