

Product Number: WF2400-10901B
Product Name: 2.4 GHz AP Antenna

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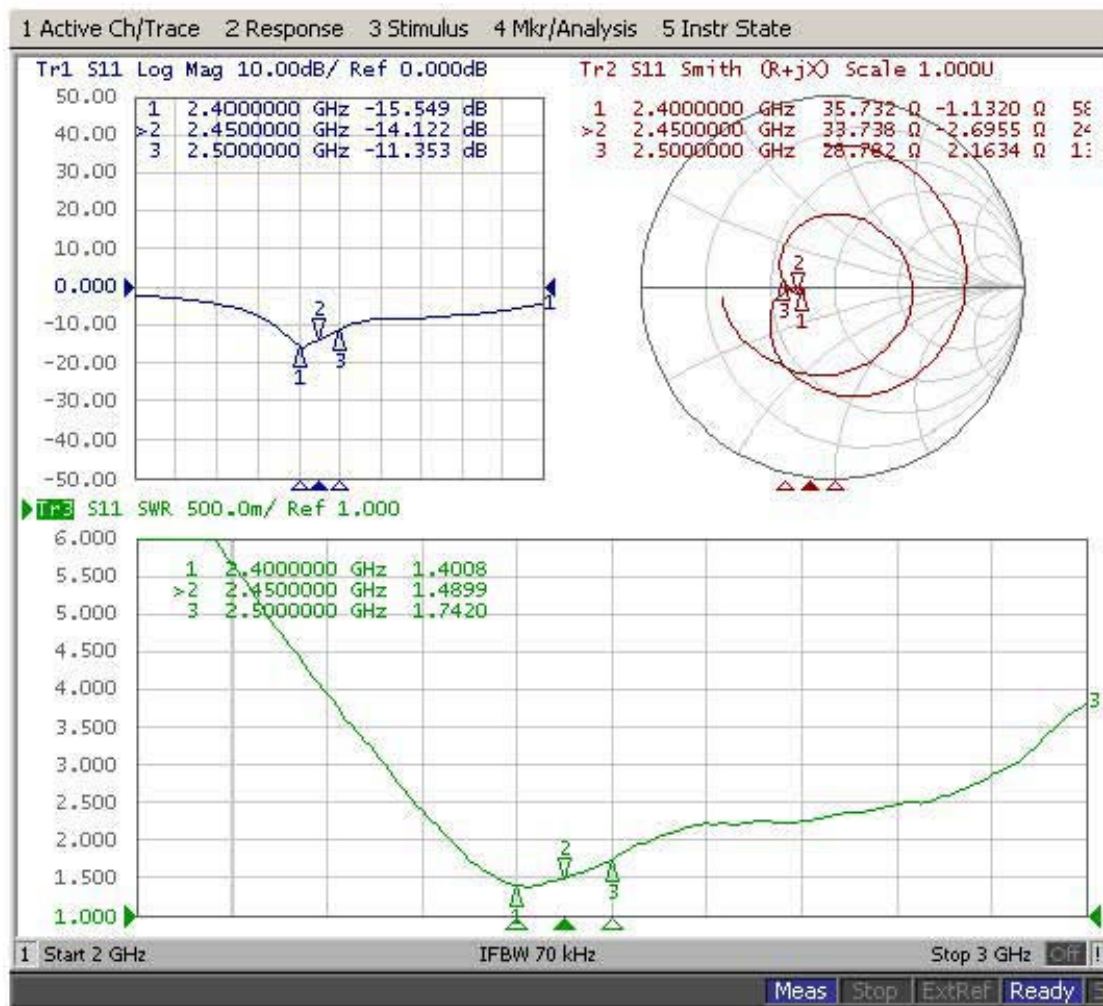
1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40° C (30minutes) to 90° C (30minutes); 48 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	48 hours at 60° C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	48 hours at 90° C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

2. Specification

A. Electrical Characteristics	
S.W.R.	≤ 2.0 @ 2400~2500 MHz
Antenna Gain	2.0 ± 0.7 dBi (*Depends on Product Mechanical Environment*)
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	50 Ohm SMA Male Reverse
C. Environmental	
Operation Temperature	-30 °C ~ +85 °C
Storage Temperature	-30 °C ~ +85 °C

3. S Parameter Test data



Product Number: WF2400-10901B
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4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

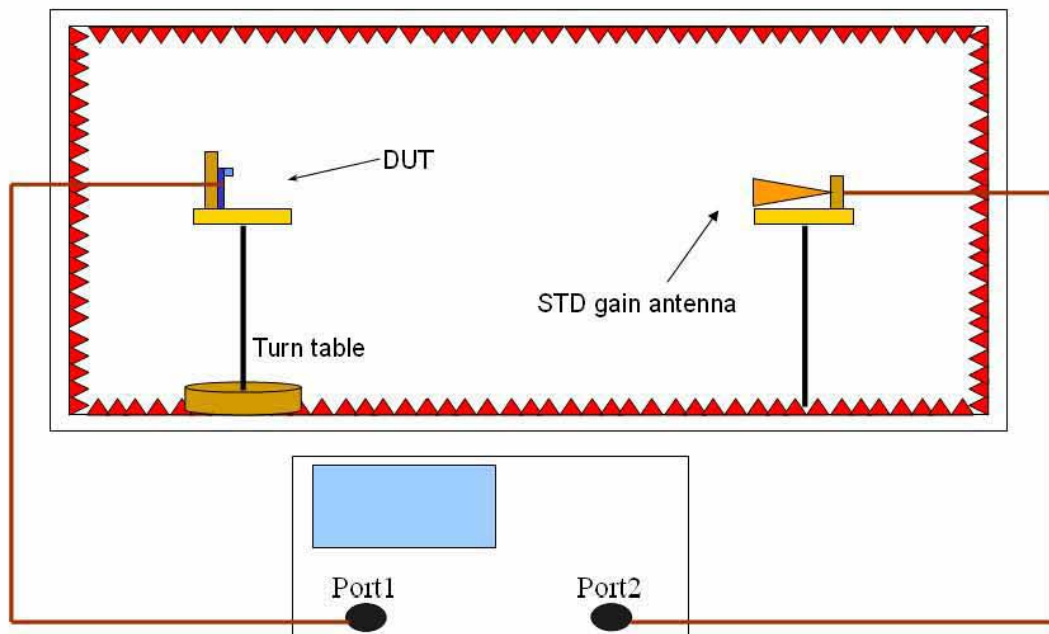
Quiet Zone: 600mm @ 1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

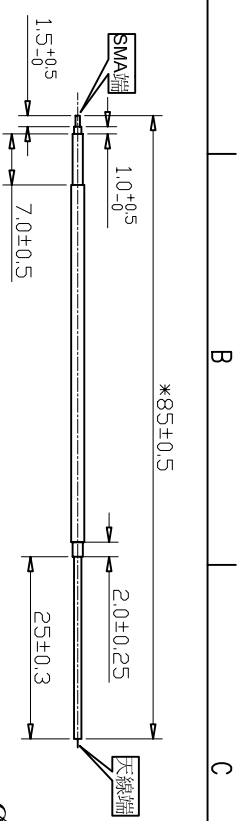
Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

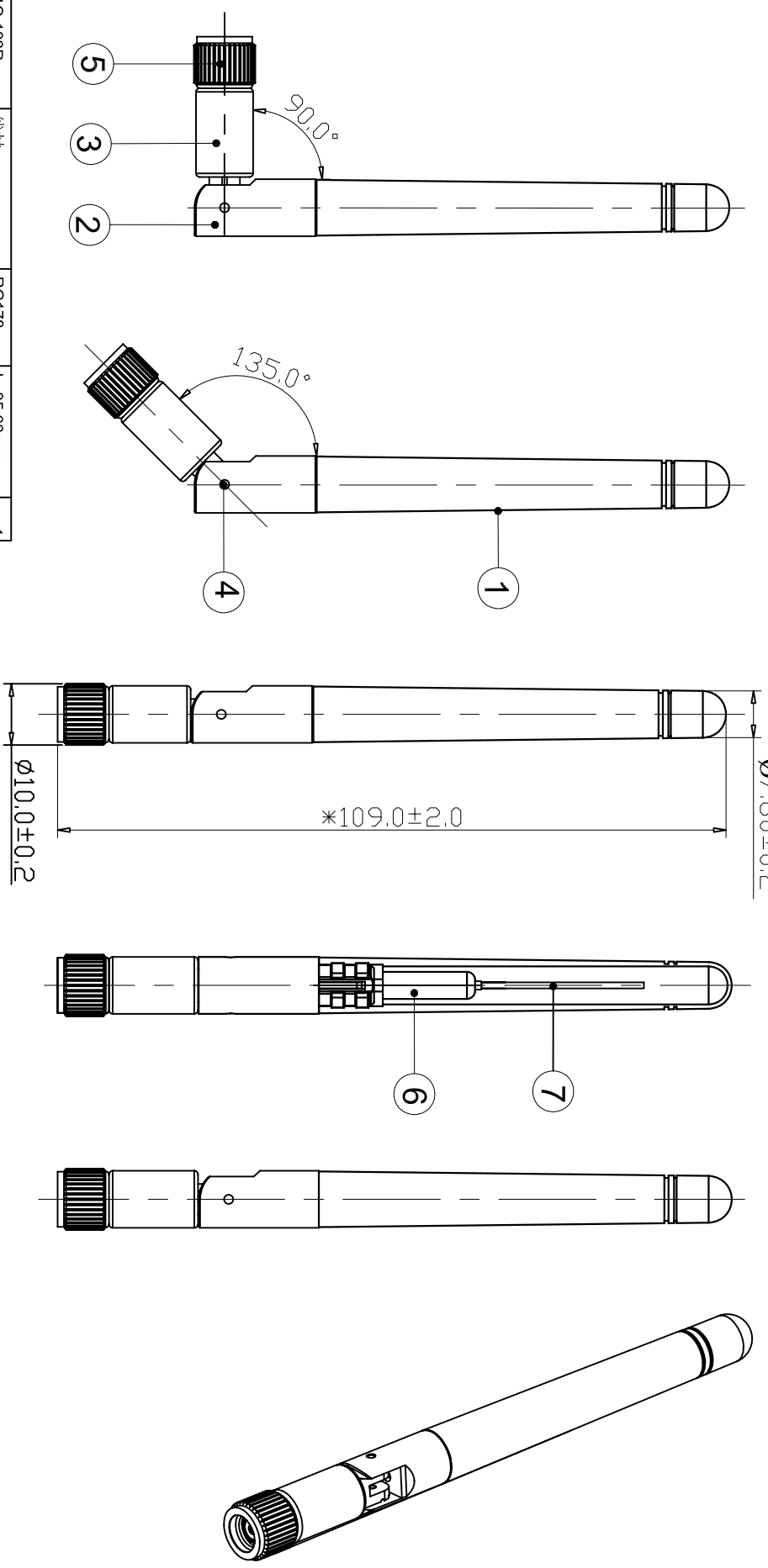


5. Mechanical Drawing

6. MSDS & SGS Report



REVISIONS				
SYM	Ecn No.	DESCRIPTION	DATE	APPROVED
A		RELEASE TO PRODUCTION	05-JUN-2008	David



NO.	Part Number	Description	Material	Finished	Qty
7	OCA-L1101C-183R	线材	RG178	L=85.00mm	1
6	TWF-TG44245S-01	铜管	铜	Ø4.40*24.5mm	1
5	SMA-MC-185N	SMA 旋轉套	锌合金	鍍銀	1
4	TWF-ZZ153552N-01	定位柱	铜	鍍黑锌	2
3	MWF-LT194286M-02	连接筒	PA+ABS	奶白色	1
2	MWF-LH94214M-02	连接头	PA+ABS	奶白色	1
1	MWF-BT94673M-02	本体	TPEE	奶白色	1

TOLERANCES UNLESS OTHERWISE SPECIFIED		David	
.X ±0.20	.XX ±0.10	.XXX ±0.05	
.X ±2°	.X ±1°		
DRAWING MATERIAL SEE NOTE		Chian Yao CO., LTD	
CHECKED	05-JUN-2008	UNITS	MM
APPROVAL		PART NO	WF2400-10901B
		SIZE	A4
		DRAWING NO	WF2400-10901B
		REV	A
SCALE 1:1		NAME 2.4GHz Antenna-2dBi	

TPE Datasheet

物性項目 Property	單位 Unit	ASTM 試驗法 Test Method	TPE
比重 Specific Gravity	---	D792	0.88
模具收縮率 Shrinkage	%	D955	0.8-2.5
斷裂拉伸強度 Tensile Strength	Kg/ cm ³	D638	3.1
扭曲強度 Flexural Strength	Kg/ cm ³	D790	---
衝擊強度缺口 23°C Impact Strength	Kg om/om	D256	---
硬度 Hardness	A Shore	---	13
熱變形溫度 0.45 MPa Heat Deflection Temp.	°C	D648	80
熔融指數 Melt Flow Index	G/ min ²	D1238	10
燃燒性 Flammability	---	UL94	HB
<p>Testing Data from</p> <p>東莞市合春塑料有限公司 Tel:86-0769-2774772</p> <p>台灣大雅國際股份有限公司 Tel:886-02-27775232</p>			

PA-6 Datasheet

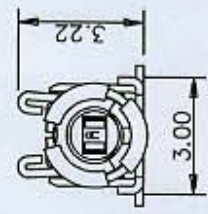
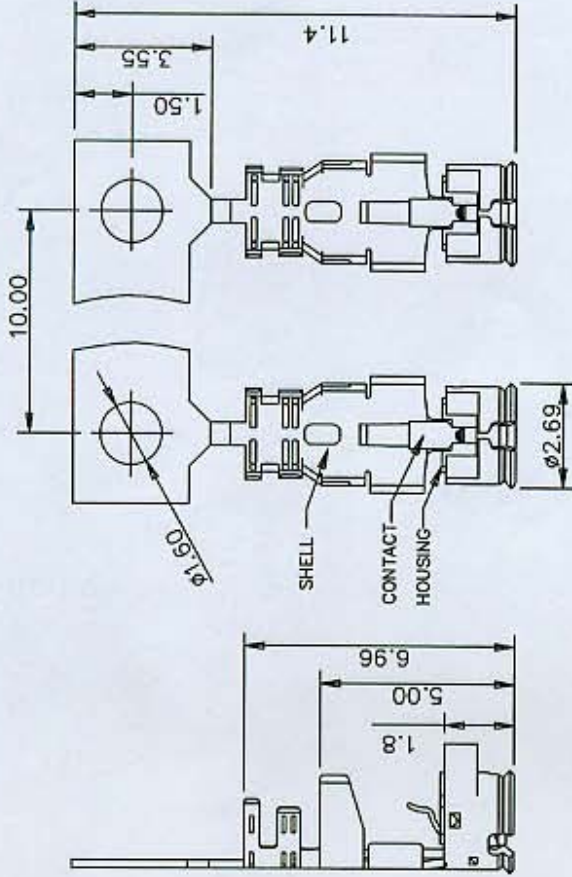
納普工程塑料檢測報告單

QR-82401-04

A/1

NO : 06040401

品名	增韌增強尼龍	檢驗標準	QW-824-03	顏色	黑色
型號	PA6-EA	批號	----	數量	2T
檢驗項目	單位	檢驗標準	標準要求	實測數據	
拉伸強度	Mpa	GB/T1040-92	----	35.6	
拉伸模量	Mpa	GB/T1040-92	----	1363	
斷裂伸長率	%	GB/T1040-92	----	63.6	
簡支梁沖擊強度(缺口)	KJ/M2	GB/T1043-93	----	20.0	
簡支梁沖擊強度(非缺口)	KJ/M2	GB/T1043-93	----	NB	
結論: 以上數據均為實測數據					
檢驗員：李興華		日期：2006-05-07		審核：汪文	
				日期：2006-05-07	



NOTES:

1. VOLTAGE RATING: 50V AC/DC
2. CURRENT VS. TEP. RISE: 0.3A AC/DC, 30 C RISE Max;
3. INSULATION RESISTANCE: 100 MGOHMS Min.
4. DIELECTRIC WITHSTANDING VOLTAGE : 200V AC/Minute
5. VSWR : 1.5Max AT 6GHZ
6. MATING FORCE AND UNMATING FORCE,SEE ITEM
7. MATING FORCE: 3.5Kgf Max,UNMATING FORCE: 0.3Kgf Min
8. DURABILITY: 20 TIMES
9. CABLE RETENTION FORCE:1.0Kgf MIN.

3	SHELL	COPPER ALLOY	GOLD PLATED OVER NI
2	CONTACT	COPPER ALLOY	GOLD PLATED OVER NI
1	HOUSING	PBT	UL94-0
NO	NAME	MATERIAL	DESCRIPTION

UNITS: mm		NAME:	RF 1.13 CONNECTOR	JINGCHENG ELECTRON CO.,LTD
X.±	X'±	PART No.:	S02113-1	DWG NO.: 02-007028
.X± 0.2	.X'±	APPD:	Wang Lee	SCALE SHEET REV.
.XX± 0.10	.XX'±	DR:	Shen Gao	NONE 1/1 A0
.XXX±	.XXX'±			