

# Suzhou Point Positive Electronic Technology Co.,ltd

## SPECIFICATION FOR APPROVAL

Customer	Hansong (NanJing) Technology Ltd		
Customer P/N	45-2-000146	Rev.	A1
Description	ANTENNA		
DRAWING P/N	RC1WFI0886A1		

CUSTOMER APPROVED BY STAMP	Approval	Quality	RD	Sales
	Roy	Hellen	Tak	Frank

ADD : No 3 XinLang Road ,Yinghu industrial Park, Wangting Town  
Xiangcheng district Suzhou City

TEL : 0512-66706846

FAX : 0512-65088773

MAIL;Sales@ppteco.com



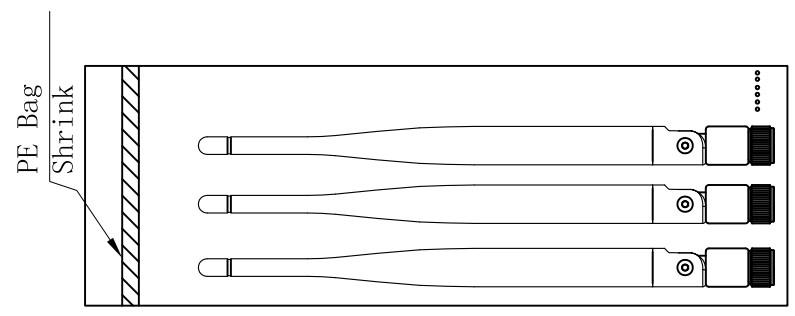
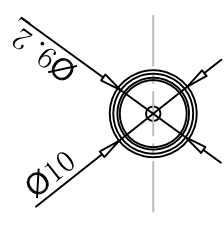
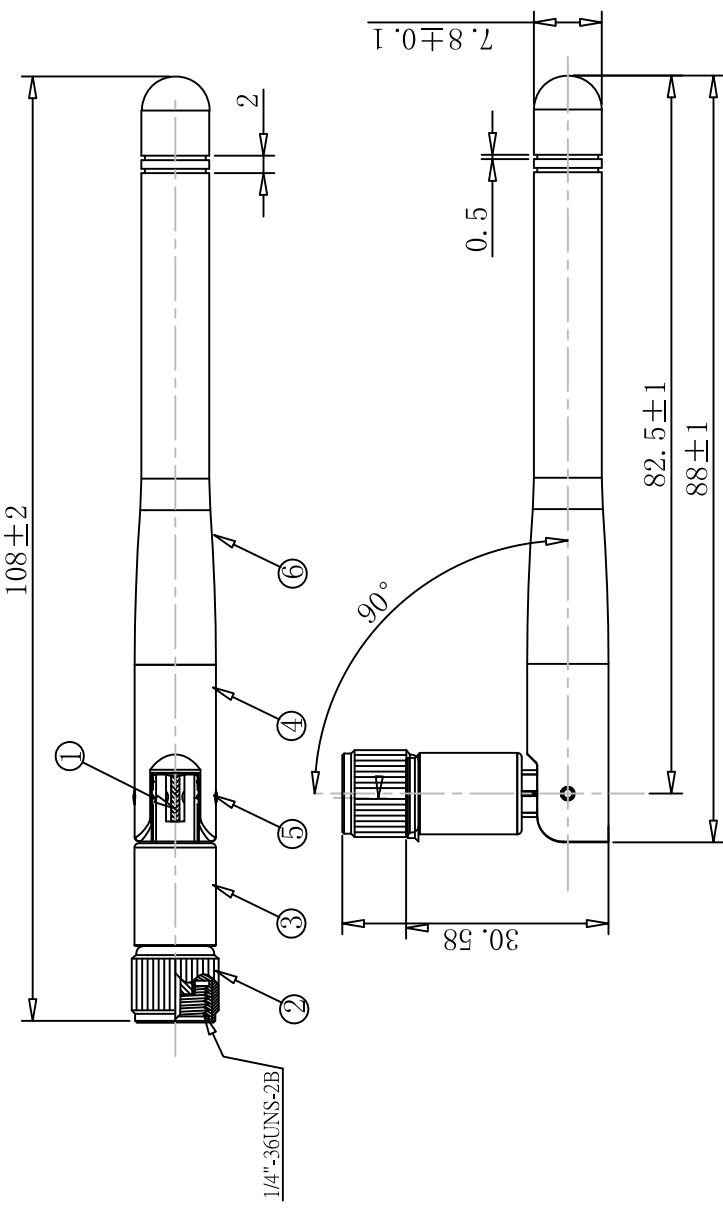
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# SPECIFICATION

1. Description	ANTENNA
2. Customer	Hansong (NanJing) Technology Ltd
3. Model No	RC1WFI0886A
4. Part No	45-2-000146
5. Standard	
6. Antenna Profile	see Drawing
7. Color	BK
8. Electrical Characteristics	
Operating Frequency	2.4~5.8Ghz
Antenna Type	Dual band antenna
Polarization Type	vertical or horizontal
Peak Gain	2.4G~1.8.DBi/5G~2.5DBi Typica
Impedance	50Ω
V.S.W.R	2:1 Max.
9. Mechanical Characteristics	
Swivel	
Lead Length	L:108MM
Connector	RP-SMA
10. Raw Material	
Coaxial Cable	RG178
Housing/Hinge	TPE

8	7	6	5	4	3	2	1
K	J	G	G	F	E	D	C
A	B	C		D	E	F	G
REV	DATE	DESCRIPTION		New Issue			
A							



**SPECIFICATION**  
 1. Frequency Range: 2.4-5.8Ghz  
 2. Impedance: 50Ω  
 3. VSWR : ≤2.0  
 4. Polarization: Vertical  
 5. Radiation: Omni

NO	PARTNAME	DESCRIPTION	Q'TY
⑥	Connettor	SM3033 Reverse	1PCS
⑤	Antenna Cover	L153mm*□3.0mm TPEE Black	1PCS
④	Rivet	L5.1mm*□2.4mm POM Black	2PCS
③	Antenna Base	L28.2*□3.0mm PBT Black	1PCS
②	Antenna Base	L29.4*□3.0mm PC Black	1PCS
①	Cable	RG-178 Cable 50Ω	1PCS

XX	±5	APPROVED	Roy
X	±3.0	CHECKED	Tak
.X	±1.0	DRAWING	Saint
.XX	±0.5		
.XXX	±0.1		
⊕			

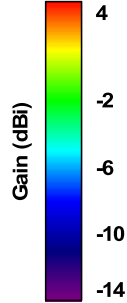
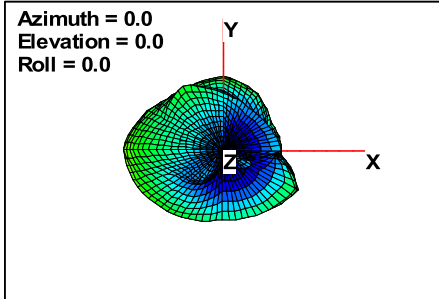
CUSTOMER'S SINGATURE		CUSTOMER: Hansong(Nanjing)
		PART NO : 45-2-000146
		PARTNAME: 2.4-5.8G Antenna
		P/NO : RC1WFI0886A1
REV	UNIT	FILE :
A	m/m	SHEET : 1/1



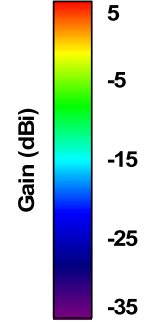
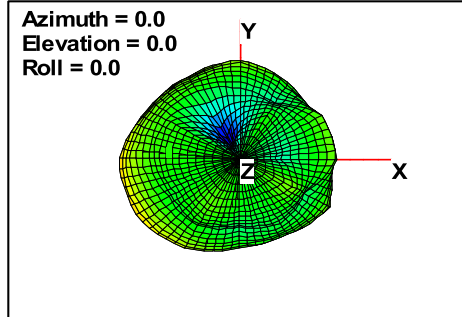
Packing : 6PCS/BAG

Total	Point Value	Ant. Port	In Tot.	Rad. P	Peak EIRP	Directivity (Efficiency (r	Efficiency (Gain (dBi)
	Frequency (MHz)						
	2400	0	-3.21025	1.55244	5.76269	-3.21025	36.7502 1.86244
	2450	0	-4.05822	1.6651	6.72331	-4.05822	36.2806 1.8651
	2500	0	-1.79753	3.7692	6.56674	-2.79753	78.9102 1.9701

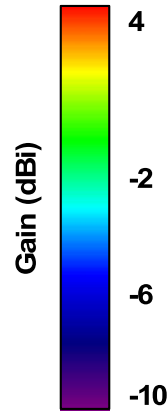
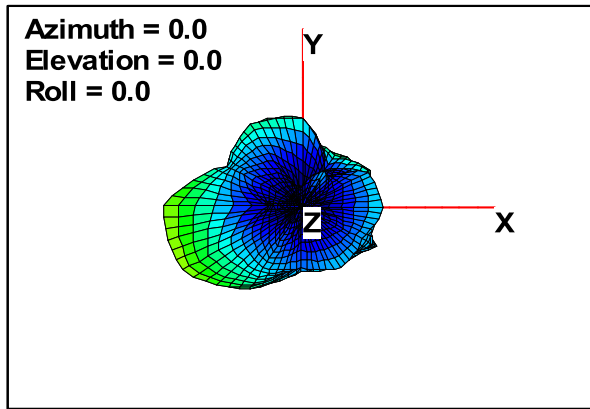
**2.4G**



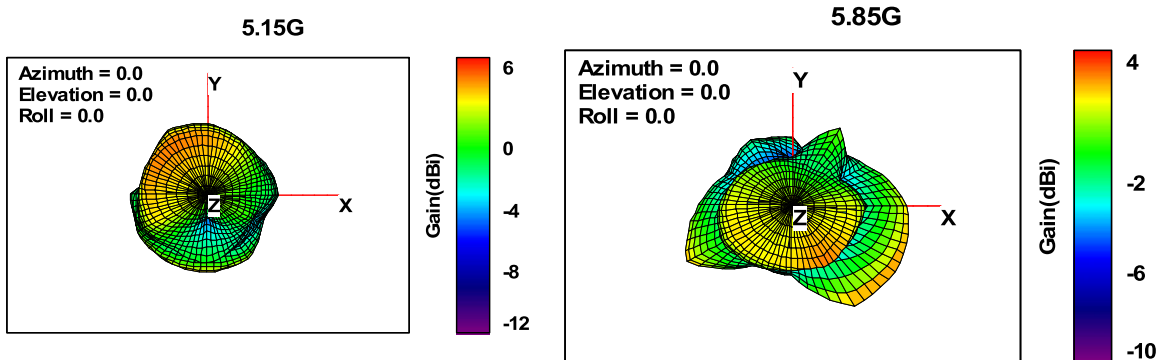
**2.45G**



**2.5G**



Frequency (MHz)	Total	Port In	Value	Ant. Rad.	Peak Directivity (dBi)	EIRI	Efficiency (d)	Efficiency (%)	Gain (dBi)
5150	0	-0.6197	4.73919	5.35887	-0.619684	86.7025	2.73919		
5850	0	-1.3441	3.24529	4.58942	-1.34413	73.3815	2.24529		



## Test Result : & Peak Gain

Frequency Range(MHZ)	2400	2450	2500	5150	5850	
<b>Gain (dBi)</b>	1.86244	1.8651	1.9701	2.73919	2.24529	

无锡源达电工材料有限公司

WUXI YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401

Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

客户/ Customer: 苏州点正电子科技有限公司\_\_\_\_\_

客户料号/ Customer P/N: \_ YD178\_\_\_\_\_

# 规格书

## Specification

50  $\Omega$  (FEP) 绝缘射频电缆

50  $\Omega$  FEP Insulated Coaxial Cable

YD178 系列

YD178 SERIES

编制/ Signed by: cool lai

编制日期/ Date: 22<sup>th</sup> April 2009

# 无锡源达电工材料有限公司

WUXI YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401

Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

## 1. 适用范围:

Scope

本规格书制定了 50 Ω FEP 绝缘射频电缆 YD178 系列的结构和电气特性。

This specification covers the construction and the electrical properties of YD178 series of 50 Ω FEP Insulation Coaxial Cable.

## 2. 结构/Construction:

单位/Unit:mm

项目/Item	详细资料/Details
导体/Conductor	材料/Material 镀银铜线/Silver-coated Copper Wire
	构成(根/mm) Composition (No./mm) 7/0.102
	标称直径/Nom. O. D (mm) 0.306±0.03
绝缘层 /Insulation	材料/Material /聚四氟乙烯/PTFE
	标称绝缘厚度/Nom. Thick (mm) 0.275
	标称外径/Nom. O. D (mm) 0.86±0.03
屏蔽层/Shield	材料/Material 镀银铜线/Silver-coated annealed copper wire
	构成/Composition 0.10 单线编织/Single Braid of 0.10
护套/Jacket	材料/Material 聚全氟乙丙烯(*颜色)/FEP(*color)
	标称护套厚度/Nom. Thick (mm) 0.25
	标称外径/Nom. O. D (mm) 1.80±0.08
	颜色/Color 按与客户确认的颜色/According to corresponding have approved by the suppliers and customers

## 3. 电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	Max. 800
绝缘电阻/Insulation Resistance	MΩ.km	Min. 500
耐压强度/Dielectric Strength	V(AC)/min	1000
静电容/Capacitance	pF/m	105(1kHz)
特性阻抗/Characteristic Impedance	Ω	50±2.0
衰减/Attenuation	dB/m	1GHz 1.70
		2GHz 2.42
		3GHz 3.08



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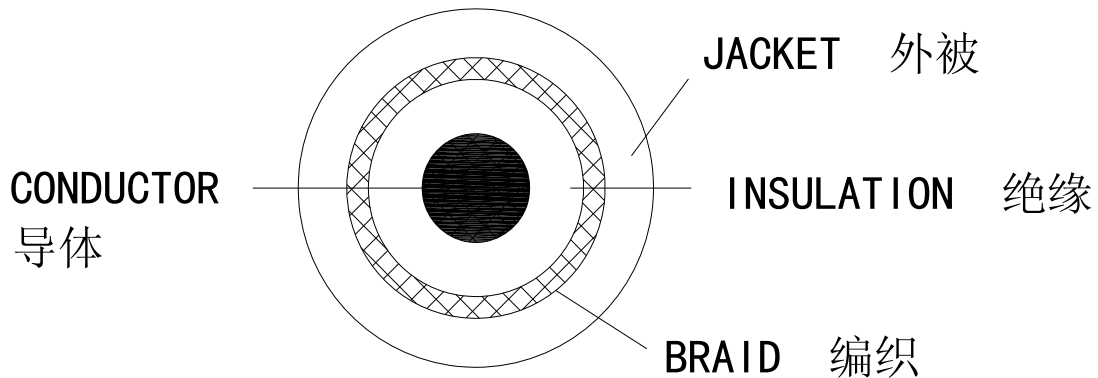
Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

		4GHz	3.63
		5GHz	4.15
		6GHz	4.80
耐温 Temperature range	°C	-55-150 (FEP), -55-200 (PTFE)	
驻波比/Standing wave (0-6GHz)	/	≤1.35	

#### 4. 包装 Packing

标准单位包装长度为 400 米/盘, 每盘最多允许 3 个接头, 接头最短长度 20 米, 在搬运过程中不能损坏包装.

Standard unit length of finished cable shall be 400m on reel, frequency of joint max.3/reel, the mini length is 20m. The finished cable shall be packed not be damaged during transportation



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本产品有时不适合车载用途的情况也有,所以使用前请先和本公司业务部门进行商谈.

This product is not suitable for automobile application in some cases. Please contact with our sales department before you use this product.

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规格书完  
End of specification