

承認書

APPROVAL

廠 商 神準科技股份有限公司

CUSTOMER

料 號 7102A1256000

PART NO.

品 名 ANT DIPOLE 863-928MHz 1.96dBi
RFDPA161500SMUB802 WHITE

PARTNAME

生產廠商 INPAQ TECHNOLOGY CO.,LTD.

COMPANY

備 註 RFDPA161500SMUB802

PART NO

日 期 2024.9.6

DATE

產品重量(g): 29.18 g

WEIGHT

產品主要材質: ABS

MAIN MATERIAL

公 司

COMPANY No.566-1, Kao-Shi Rd., Yangmei Dist. Taoyuan City 32668, Taiwan, R.O.C.

地 址

ADDRESS

電 話 : 03-4756600

傳 真 : 03-7585511

TELEPHONE

FAX

品名：RFDPA161500SMUB802

1. Explanation of part number :

RF	DPA	1615	00	S	M	U	B	8	02
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1713 Length 172mm, Width 13mm	2 digits for cable length e.g.: 07 Cable Length:7cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	863~928 MHz
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Peak Gain	863MHz~880MHz Peak gain 1.96dBi 900MHz~928MHz Peak gain 1.88dBi
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	-20°C ~ +65°C

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A UNIT : mm
 DRAWN BY : 李欣樺 CHECKED BY : 詹惠雯
 DESIGNED BY : 黃瑞郎 APPROVED BY : 陳振榮

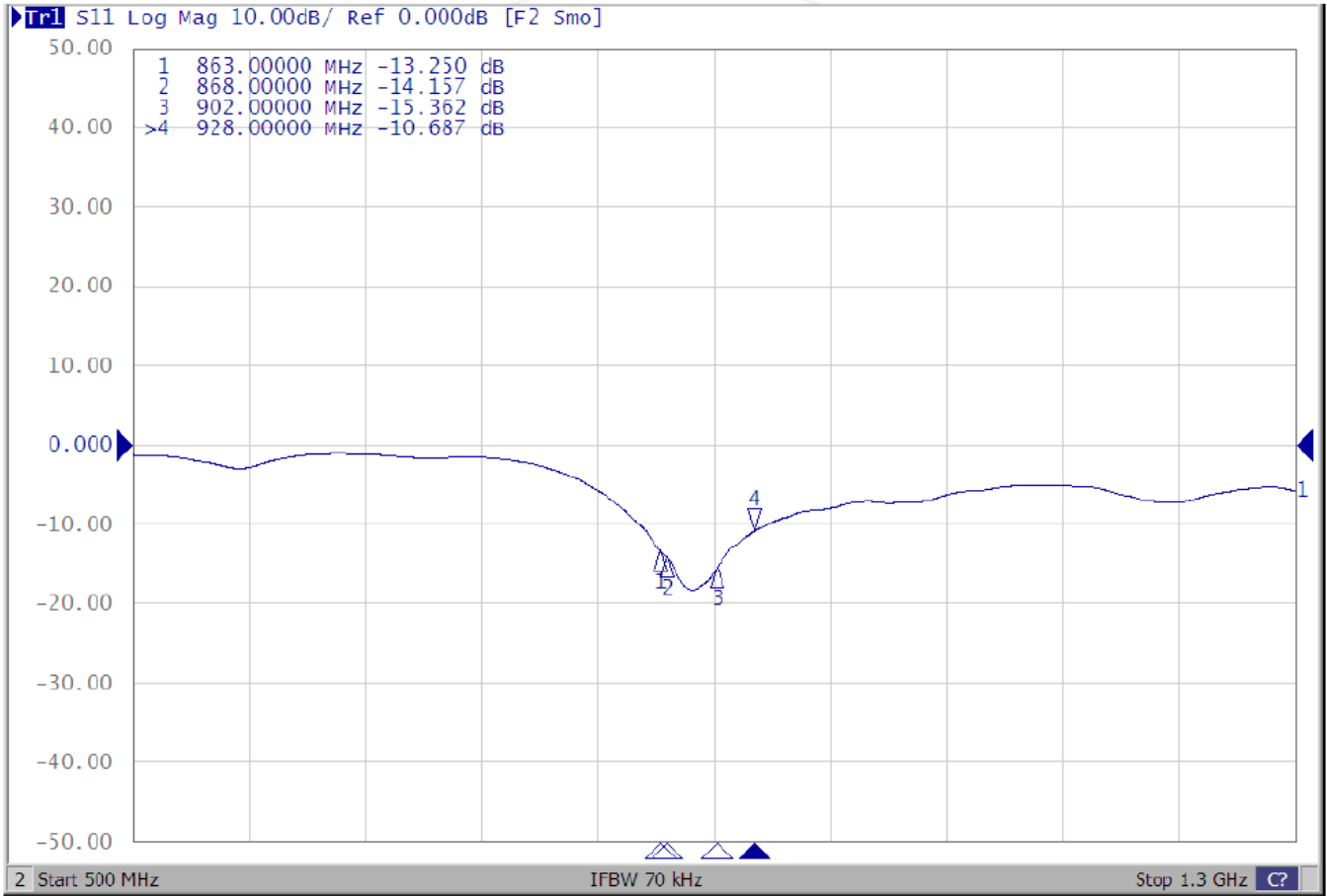
THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION


TITLE : RFDPA161500SMUB801

DOCUMENT NO. SPEC REV. **P1**

ELECTRICAL CHARACTERISTICS

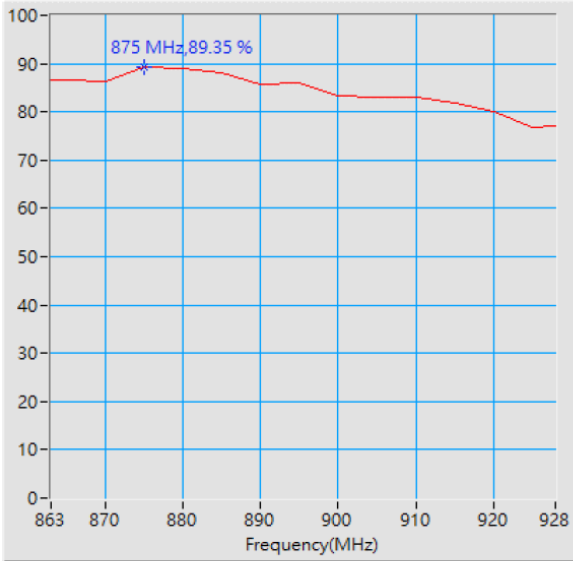
Return Loss



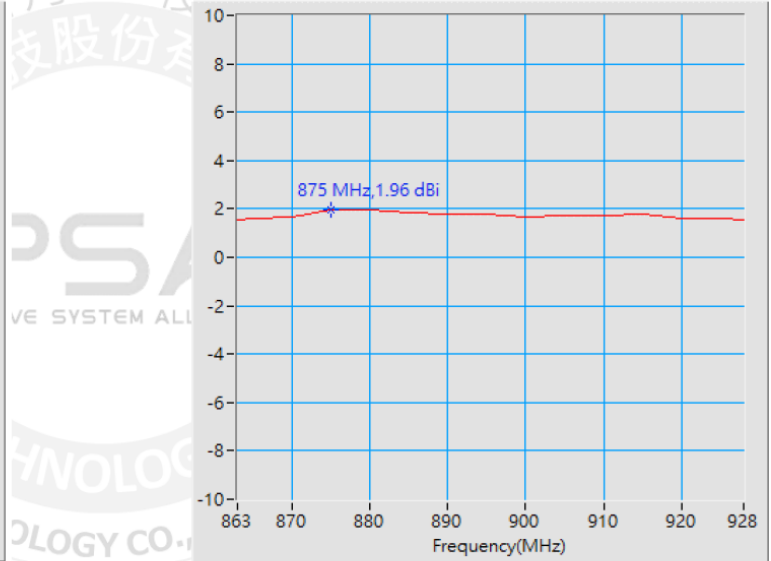
UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A		 INPAQ TECHNOLOGY CO., LTD.	
SCALE : N/A	UNIT : mm		
DRAWN BY : 李欣樺	CHECKED BY : 詹惠雯	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
TITLE : RFDPA161500SMUB801		DOCUMENT NO.	SPEC REV. P1

Antenna Efficiency and Peak Gain

863~928 MHz



Maximum Efficiency at 875 MHz : 89.35 %



Maximum Peak Gain at 875 MHz : 1.96 dBi

Frequency (MHz)	Efficiency(%)
863	88
875	89.35
880	88.12
900	85.33
910	84.97
920	80.19
928	78.88

Frequency (MHz)	Gain(dBi)
863	1.78
875	1.96
880	1.90
900	1.88
910	1.76
920	1.70
928	1.77

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 李欣樺

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE : RFDPA161500SMUB801

DOCUMENT NO.

SPEC REV. P1

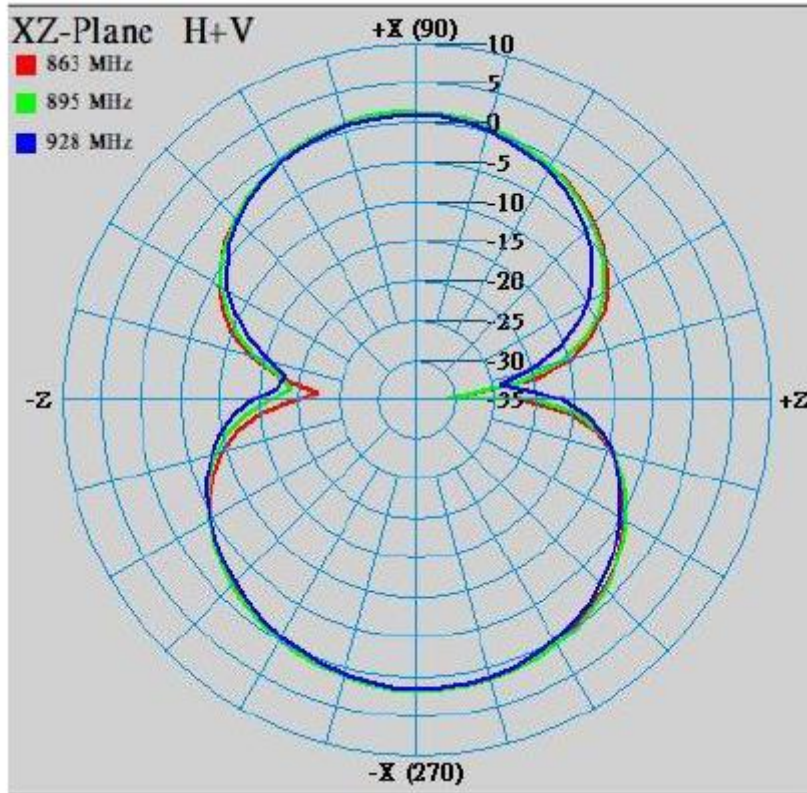
RADIATION PATTERN


863~928 MHz

X-Z Plane

Phi=0.00deg

Gain . dB

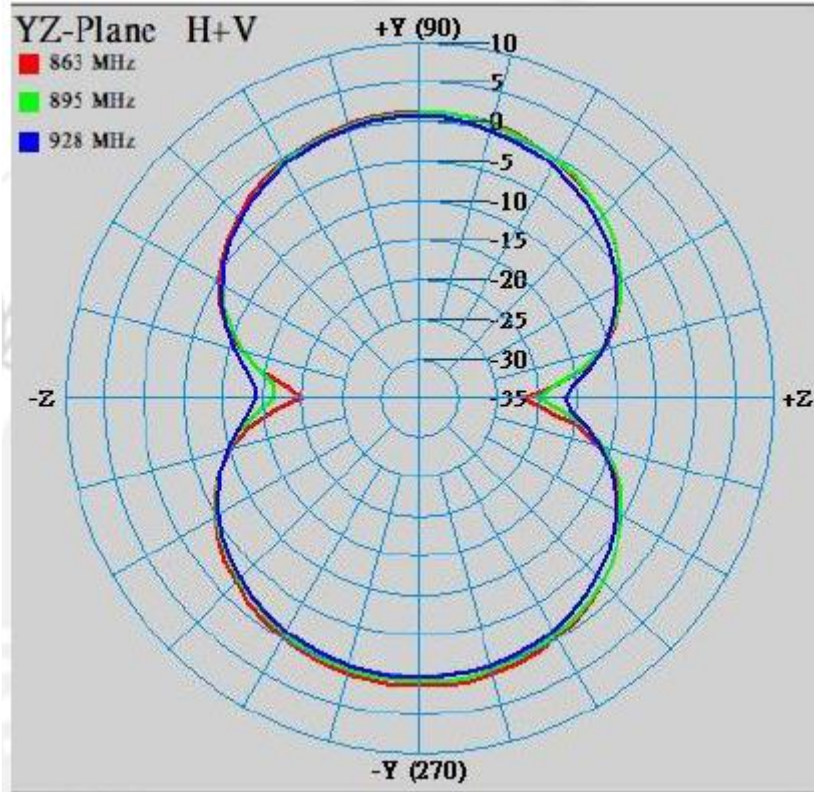



UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.
X = N/A	X.X = N/A X.XX = N/A		
ANGLES = N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
SCALE : N/A	UNIT : mm		
DRAWN BY : 李欣樺	CHECKED BY : 詹惠雯		
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
TITLE : RFDPA161500SMUB801		DOCUMENT NO.	SPEC REV. P1

Y-Z Plane

Phi=90.00deg

Gain . dB

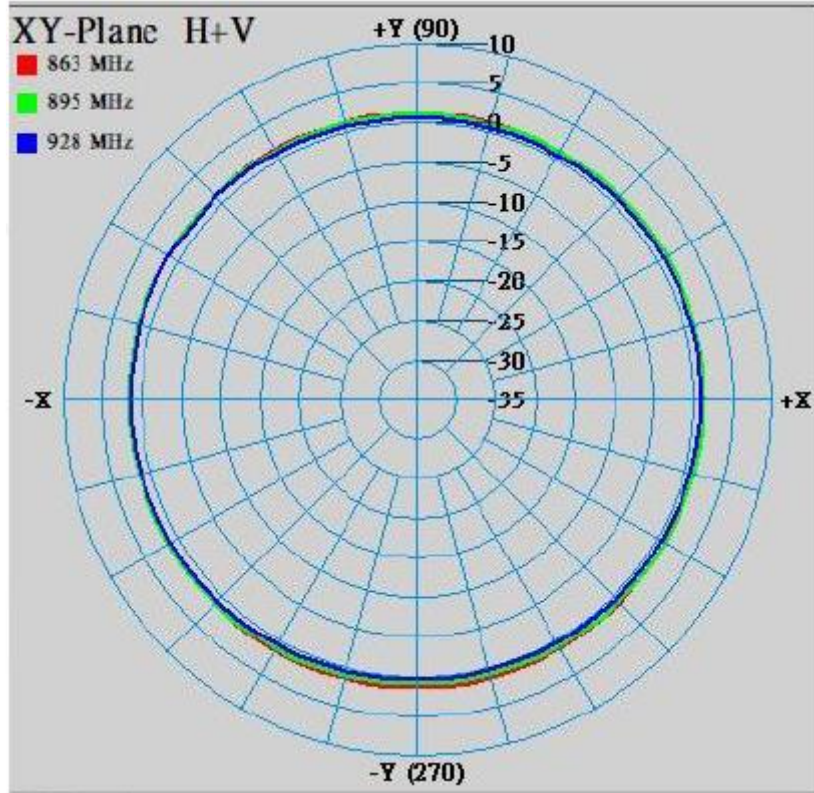


UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.
X=N/A	X.X=N/A X.XX=N/A		
ANGLES=N/A HOLEDIA=N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
SCALE : N/A	UNIT : mm		
DRAWN BY : 李欣樺	CHECKED BY : 詹惠雯		
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮	DOCUMENT NO.	
TITLE : RFDPA161500SMUB801			


X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dB]	Max Value [dBi]	Average [dB]	Max Value [dBi]	Average [dB]
863	1.55	-1.95	1.43	-1.88	1.53	1.35
895	1.81	-1.76	1.18	-2.16	1.77	1.34
928	1.53	-2.21	0.72	-2.65	1.52	0.95

UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.
X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A			
SCALE : N/A	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY : 李欣樺	CHECKED BY : 詹惠雯		
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
TITLE : RFDPA161500SMUB801		DOCUMENT NO.	SPEC REV. P1