APPROVAL SHEET

Metal ANTENNA

2.4 ~ 2.5 GHz Band Working Frequency

Halogens Free Product

P/N: RFMTA161425IMAB401

Customer :	光寶科技股份有限公司
Customer 's Part No. :	
Approval No. :	
Issue Date :	

*Contents in this sheet are subject to change without prior notice.



品名:**RFMTA161425IMAB401**

History List

版本 REV.	修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 編號 ECN NO.
A0	Huiwenchan	ALL	Temporary Release	2021/08/05	According to the date of PLM Release	N/A

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1.Explanation of part number :

RF	МТА	1614	25	Ι	Μ	Α	В	4	01
Type Code	Product Code	Metal Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	Metal Antenna	Per 2 digits of length, width e.g.: 1614 Length 166.0mm, Width 140.0mm	2 digits for cable length e.g.:25 Cable Length 2G1:22.0cm 2G2:25.0cm 5G1:23.0cm 5G2:15.0cm BT:21.0cm	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 6: 6GHz 5: 5GHz 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:∞ 0.81 2:∞ 1.32 3:∞ 1.13 4:Low Loss ∞ 1.13 5:∞ 0.5 6:RG316 7: ∞ 1.37 8:RG178 9:Low Loss ∞ 1.37	01~99 series number

2.Electrical Specification :

Item	Specification				
Working Frequency Range	2.4 ~2.5 GHz				
Return Loss	-10 dB				
	2G1:7.51 dBi				
	2G2::7.41 dBi				
Peak Gain	52G1:6.76 dBi				
	5G2::7.58 dBi				
	BT:7.38				
VSWR	2 max.				
Polarization	Linear Vertical				
Radiation Pattern	Directional				
Impedance	50Ω				
Operation Temperature	-20° C \sim $+65^{\circ}$ C				

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ELECTRICAL CHARACTERISTICS ANT1 Return Loss 1000 sil Log Mag 10.00dm/ wef 0.000dm [F21 4000000 GHz -21_676 4500000 GHz -16,817 5000000 GHz -13,911 1500000 GHz -3,7604 5000000 GHz -3,9243 8500000 GHz -3,9243 100000 10.00 30.05 20.00 10.00 0,000 10,00 70.00 30.00 15.00 51.5 1 Intel 1 Hoy & Ch. CO. ANT2 Return Loss 50 00 4000000 GHz -1.1,235 HB 4500000 GHz -14,103 HB 5000000 GHz -12,650 HB 1500000 GHz -5,0532 HB 5000000 GHz -5,1378 HB 8500000 GHz -4,0250 HB 40.00 30.00 10.00 19,90 0.000 10,00 쐯 20.00 10.00 -10.00 50-15 1 59 12 UNLESS OTHER SPECIFIED TOLERANCES ON : 5 X = N/AX.X = N/AX.XX = N/AINPAQ TECHNOLOGY CO., LTD. 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: 詹惠雯 CHECKED BY: 詹惠雯 DESIGNED BY:黃瑞郎 APPROVED BY:陳振榮 DOCUMENT SPEC REV. TITLE : RFMTA161425IMAB401 NO. **A**0

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Antenna Efficiency & Peak Gain ANT1 100 10-2500 MHz,7.51 dBi 90 8 80 б 2450 MHz,74.36 9 70 4 60 2 50 0 40 -2 30 -4 20 -6-10 -8 -10 0 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 Frequency(MHz) Frequency(MHz) Maximum Peak Gain at 2500 MHz : 7.51 dBi Maximum Efficiency at 2450 MHz : 74.36 % ANT₂ 100 10. 90 2500 MH-8 80 6 2400 MHz,72.75 % 70 4 60 2. 50 0 40 -2 30 -4 20 -6 10--8-0 -10-2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 Frequency(MHz) Frequency(MHz) Maximum Efficiency at 2400 MHz : 72.75 % Maximum Peak Gain at 2500 MHz : 7.41 dBi UNLESS OTHER SPECIFIED TOLERANCES ON : X = N/AX.X = N/AX.XX = N/AINPAQ TECHNOLOGY CO., LTD. **U** 7 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 DRAWN BY: 詹惠雯 CHECKED BY: 詹惠雯 APPARATUS OR DEVICES WITHOUT PERMISSION DESIGNED BY:黃瑞郎 APPROVED BY:陳振榮 DOCUMENT SPEC REV. TITLE : RFMTA161425IMAB401 NO. A0 PAGE 20 OF 37



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RADIATION PATTERN

ANT1

X-Z Plane

Phi=0.00deg



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Y-Z Plane

Phi=90.00deg



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X-Y Plane

Theta=90.00deg



-	ZX plane		ZVp	lane	XV plane		
Frequency [MHr]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Mas Value [dBi]	Average [dBi]	
2400	6.48	0,00	ő.48	0.10	-2,75	-6.96	
3450	6.52	-0.50	7,04	0.50	-2,47	-6.50	
2500	7.45	-0,13	7,41	0.56	-3,44	-7.54	

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ANT2

X-Z Plane

Phi=0.00deg



UNLESS OTHER SPECIFIED X=N/A X.X=N/A ANGLES=N/A	TOLERANCES ON : A X.XX=N/A HOLEDIA=N/A	G	INPAQ TECH	INOLO	GY C	0., LTD.
SCALE : N/A	UNIT:mm	THIS DRAWIN	DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY			
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Y-Z Plane

Phi=90.00deg



UNLESS OTHER SPECIFIED X=N/A X.X=N/A ANGLES=N/A	TOLERANCES ON : A X.XX=N/A HOLEDIA=N/A	G	INPAQ TECI	INOLC	GY C	0., LTD.
SCALE : N/A	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY				OPERTY OF
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X-Y Plane

Theta=90.00deg



-	ZX plane		ZV p	laue-	XY plane		
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Volue [dBi]	Average [dBi]	
2400	ğ. 87	0.07	6.93	1.29	-3.56	-7.53	
2450	5:80	-0.78	6.46	0,79	-1.36	-6.55	
2500	7.36	-0.27	7,39	0.97	-2.10	-7.02	

UNLESS OTHER SPECIFIED							
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ANGLES=N/A	HOLEDIA=N/A					ŗ	
SCALE : N/A	UNIT:mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY					
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ANT3

X-Z Plane

Phi=0.00deg



UNLESS OTHER SPECIFIED T	OLERANCES ON :						
X=N/A X.X=N/A X.XX=N/A		Un	INPAQ TECHNOLOGY CO., LT				
ANGLES=N/A	HOLEDIA=N/A						•
SCALE : N/A	UNIT:mm	THIS DRAWIN	DRAWINGS AND SPECIFICATIONS ARE THE PROPER				OPERTY OF
DRAWN BY:詹惠雯	CHECKED BY:詹惠雯	INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODU					
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Y-Z Plane

Phi=90.00deg



UNLESS OTHER SPECIFIED X=N/A X.X=N/A	TOLERANCES ON : A X.XX=N/A	G	INPAQ TECHNOLOGY CO.		O., LTD.		
ANGLES=N/A	HOLEDIA=N/A						-
SCALE : N/A	UNIT:mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY				OPERTY OF	
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X-Y Plane

Theta=90.00deg



/	ZX plane		ZY plane		XY plane		
Етециевст [МНа]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	
5150	6.49	0.25	<u>6.02</u>	0.29	-0.42	-5.20	
5500	5.92	0.30	5.32	.0.70	0.30	-4.79	
5650	4.85	0.33	4.24	-1.46	0.49	-4,32	

UNLESS OTHER SPECIFIED	TOLERANCES ON :						
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ANGLES=N/A	HOLEDIA=N/A						-
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ANT4

X-Z Plane

Phi=0.00deg



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ANGLES=N/A	HOLEDIA=N/A					O., LID.	
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Y-Z Plane

Phi=90.00deg

Gain . dB



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X-Y Plane

Theta=90.00deg



/	ZX plane		ZV p	ZY plane XY plane		lane
Frequency [MB:]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	6.28	-0,11	6.42	0.38	-1.68	-6,09
5500	5,00	-0.59	6,99	0.60	-1.08	-0.00
5350	5,59	-0.83	6.34	0.52	-1.25	-4,82

UNLESS OTHER SPECIFIED X=N/A X.X=N	TOLERANCES ON : /A X.XX=N/A	G			O LTD.	
ANGLES=N/A	HOLEDIA=N/A					,
SCALE : N/A	UNIT:mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY O				ROPERTY OF
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ANT5

X-Z Plane

Phi=0.00deg



UNLESS OTHER SPECIFIED	TOLERANCES ON :					
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ANGLES=N/A	HOLEDIA=N/A					ŗ
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Y-Z Plane

Phi=90.00deg



UNLESS OTHER SPECIFIED X=N/A X.X=N/	TOLERANCES ON : A X.XX=N/A	G	INPAQ TE			GY C	0., LTD.		
ANGLES=N/A	HOLEDIA=N/A								
SCALE : N/A	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF								
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X-Y Plane

Theta=90.00deg

Gain . dB



-	ZX plaue		ZY p	laue	NY plane		
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	
2400	4.58	-0.21	4.24	-2,10	-1.65	-6.98	
2450	4.57	-0.81	3.83	-2.39	-2,80	.7.59	
2500	4.00	-0.80	4.20	-2.58	-2,25	7.64	

UNLESS OTHER SPECIFIED T	OLERANCES ON :									
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ANGLES=N/A	HOLEDIA=N/A						-			
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Antenna Characteristics 2.

3D Peak gain & above 30 elevation degree 2.3

	2G1		2G2		5G1		5G2		BT
Frequen cy [MHz]	Peak gain	Peak gain above 30 elevation degree	Peak gain						
2400	6.88	5.36	6.93	6.19					6.78
2450	7.04	6.77	6.46	6.36					7.17
2500	7.41	6.27	7.39	6.01					6.00
5150					6.49	5.16	6.42	5.00	
5500					6.20	5.46	6.99	4.61	
5850					6.18	6.12	6.34	4.47	

Customer Satisfaction • Excellence in Execution • Innovation • Integrity

