



Wistron NeWeb Corp.

81VPAA15.G01 Data Sheet

Customer Name:

Date: 4/9/2024

Doc. Version: 0.1

Customer P/N	170836-000
WNC P/N	81VPAA15.G01
Description	ROD ANTENNA,ASSEMBLY,DUAL,2.4~2.5GHZ,2DBI,5.15~5.85GHZ,2DBI,2VSWR,195MM(L),RP-SMA PLUG, GRAY, PANTONE 433C,-20℃~,60℃,CP PN 170836-000, RF21S00871A
Version	0.1

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
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Index

1. Product Specification	2
2. Antenna Performance.....	3
3. Outline Drawing.....	5
4. Package Picture.....	6

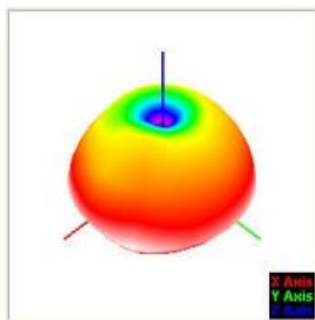
Revision History

Date	Version	Change Description
3/27/2018	0.1	First Version

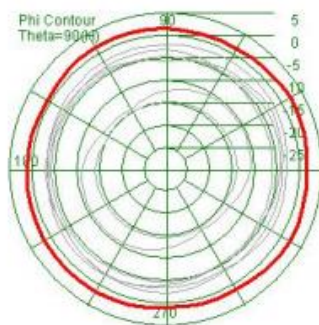
1. Product Specification

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2483 5150-5825	Frequency Range (MHZ)	2400-2500 5150-5850
中心频率 特性阻抗(Ω)	50 ± 10	Impedance(Ω)	50 ± 10
增益(dBi)	2 ± 0.5	Gain(dBi)	2 ± 0.5
效率(%)	50	Efficiency(%)	50
反射损耗	≤ -9.5	Return Loss(dB)	≤ -9.5
输出电压 驻波比	≤ 2.0	VSWR	≤ 2.0
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	SMA	Connector Type	SMA
物理性能		Physical Properties	
天线本体材料	TPEE	Antenna Base	TPEE
工作温度	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

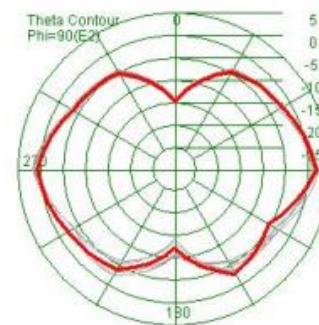
2. Antenna Performance



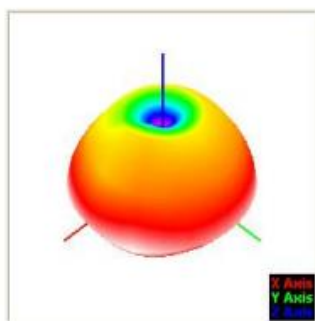
2400MHZ



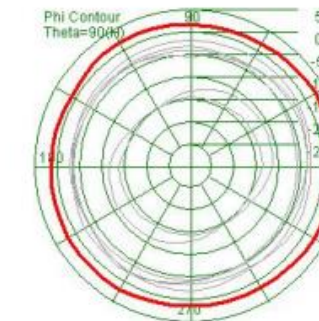
Gain(Peak):2.21dBi



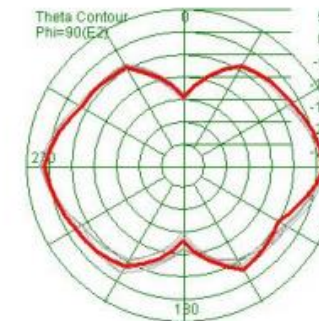
Efficiency:78.4%



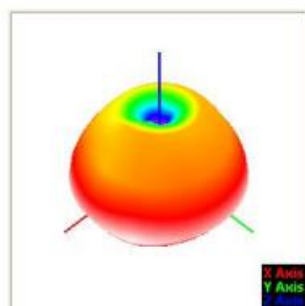
2450MHZ



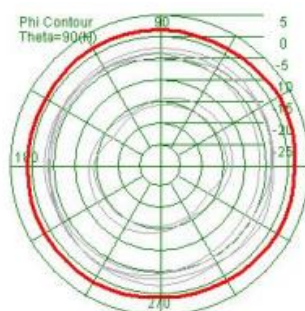
Gain(Peak):2.47dBi



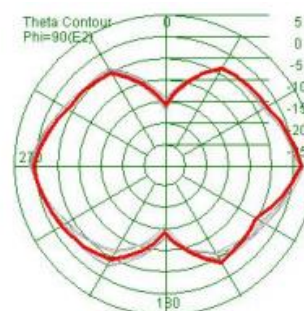
Efficiency:79.7%



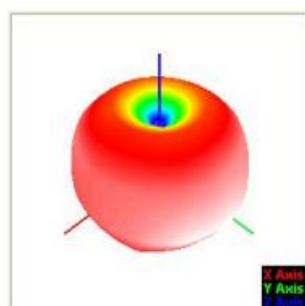
2500MHZ



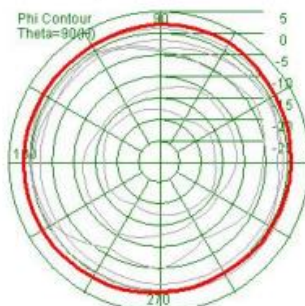
Gain(Peak):2.12dBi



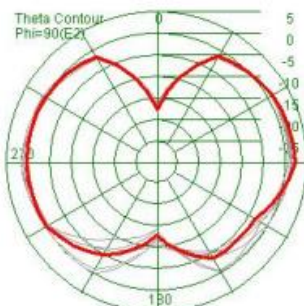
Efficiency:71.7%



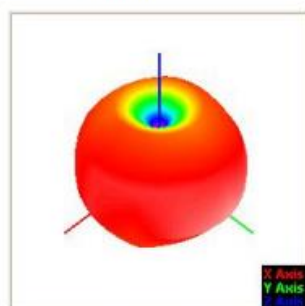
5150MHZ



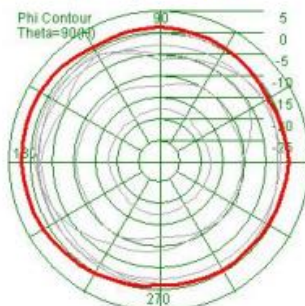
Gain(Peak):2.18dBi



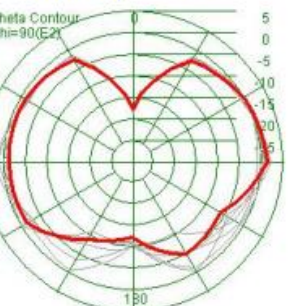
Efficiency:75.3%



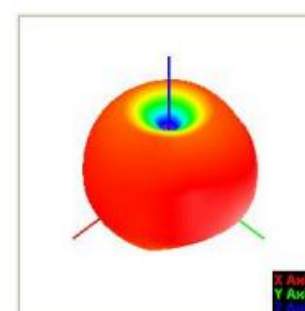
5350MHZ



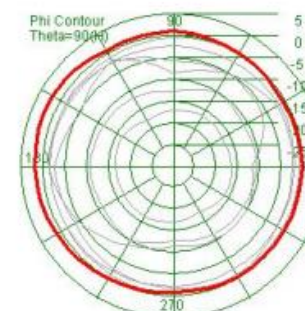
Gain(Peak):2.19dBi



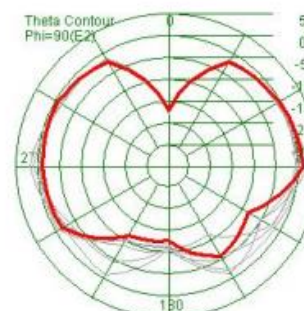
Efficiency:72.1%



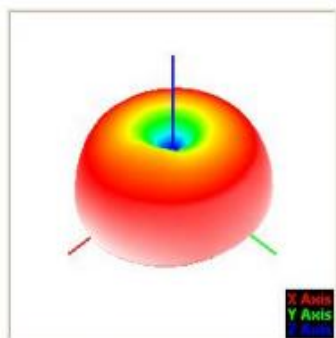
5550MHZ



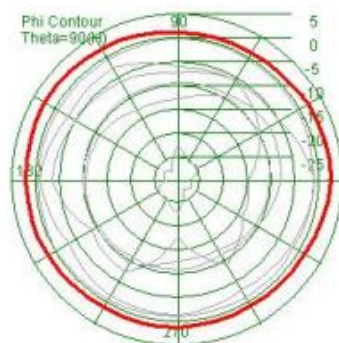
Gain(Peak):2.14dBi



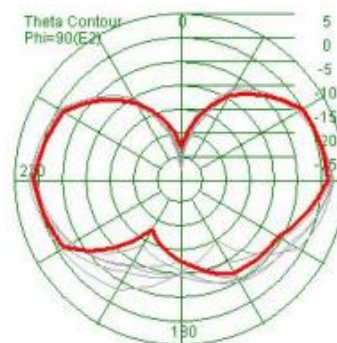
Efficiency:72.1%



5850MHz

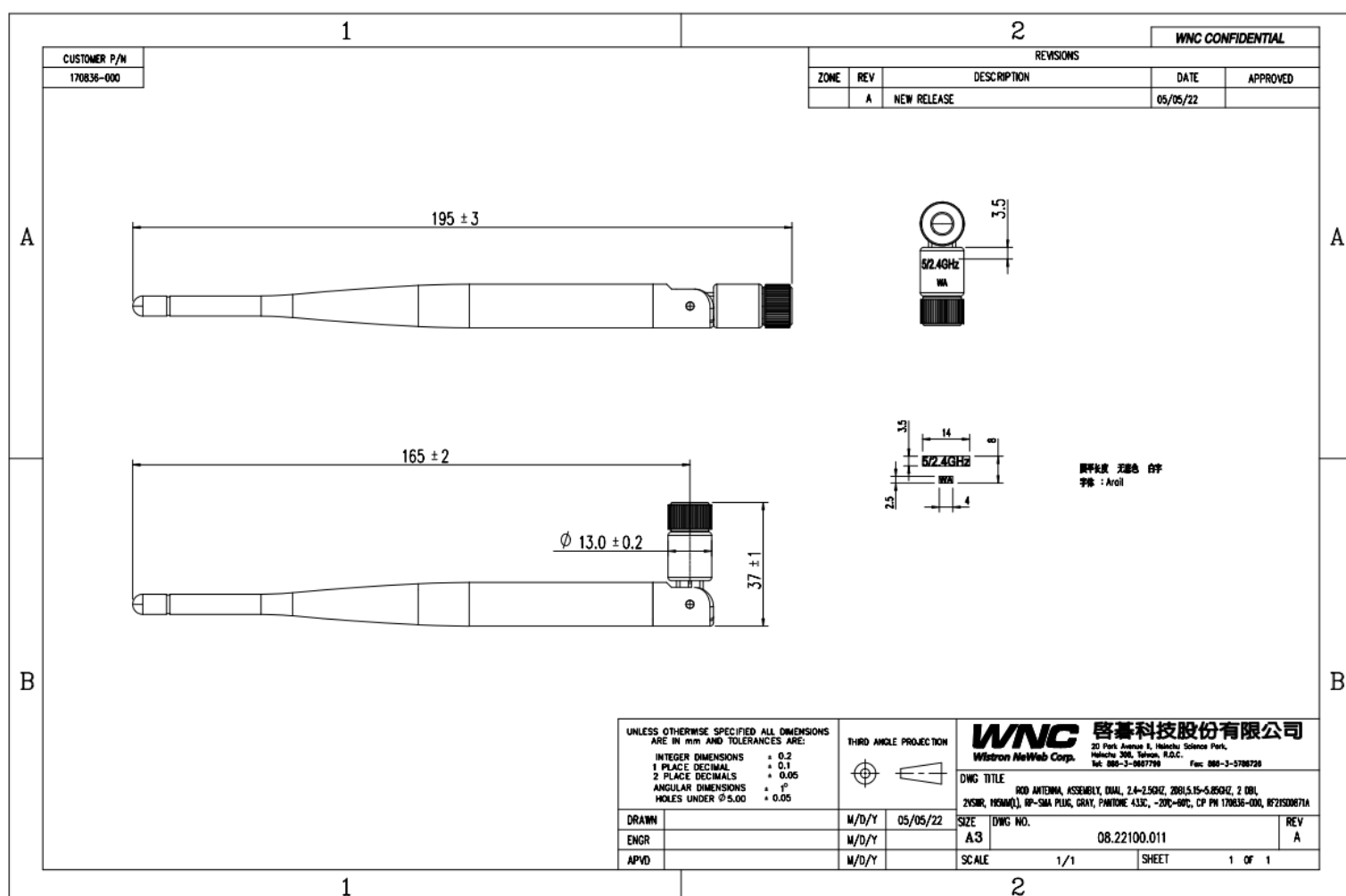


Gain(Peak):2.47dBi



Efficiency:73.8%

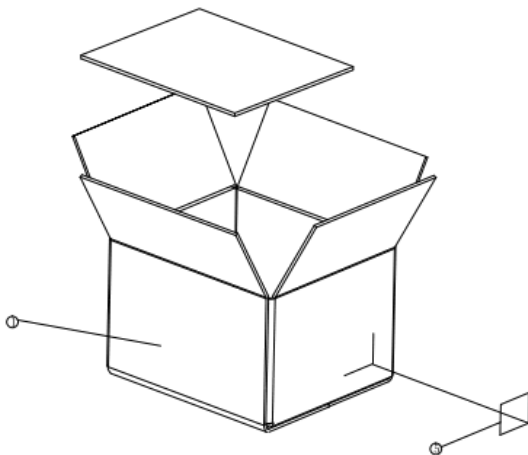
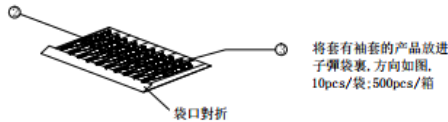
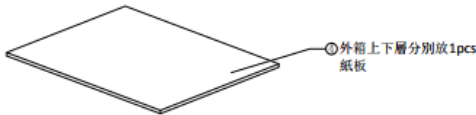
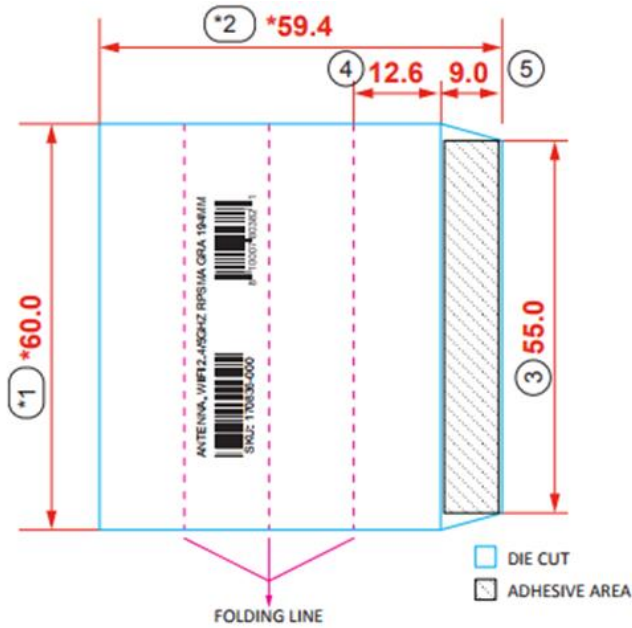
3. Outline Drawing



4. Package Picture



Bag seal from the top side of the antenna



5	5L EBC13.001	LABEL, 60*10MM, NYC, EBC-A1	EA	0.002
4	4D. EAA9N.001	PAD, 370X290MM E-FLUTE, EAA9-N01	EA	0.001
3	4B. VPAAZ.001	GENERAL BAG, FLAT, 300W 0.06T (M0, VPAA-Z1	EA	0.1
2	4E. VPAAZ.001	SLEEVE, ANTENNA, 170836-000, VPAA-Z1	EA	1
1	4C. EAA9N.001	CARTON, 395X335X240MM AB FLUTE, EAA9-N01	EA	0.002
ITEM	PART NO.	DESCRIPTION	UNIT	QTY

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE:				WNC 韋恩科技股份有限公司 20 Park Avenue S, Hsinchu Science Park, Hsinchu 300, Taiwan, R.O.C. Tel: 886-3-5877799 Fax: 886-3-5787799	
INTERIOR DIMENSIONS		ANGULAR DIMENSIONS		DWG TITLE	
1 PLACE DECIMALS	± 0.2	HOLES UNDER 25.00	± 1°	PACKING, 10PCS/BAG, 500PCS/CARTON, VPAA-Z1	
2 PLACE DECIMALS	± 0.05		± 0.05		
MATERIAL: NA				DWG NO.	
FINISH: NA				DPVPA15.002	
THIRD ANGLE PROJECTION		DRAWN	Ningning Yang	1/31/24	REV
		ENGR	Ningning Yang	1/31/24	1
		APVD	Bin Wu	1/31/24	
		SCALE	xx	SHEET	1 OF 1