

Parts Acknowledgment

The name of the customer :

Customer part number :

Part number :

ZCB0827-19B05SM-3M

Product name :

4G Antenna

Supplier confirmation		
Audit	producer	date

Signed by the customer		
Quality Assurance	engineering	procurement

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Revision history

Revision	Date	Change Notification	Description
1.0	2023-07-15	first edition	

Sample Photo**A. Electrical Characteristics**

Frequency	700-2700MHz
S.W.R.	≤ 2.0 @700-2700MHz
Antenna Gain	2.0dBi @ 700-2700MHz
Efficiency(%)	55 % @ 700-2700MHz
Polarization	Linear
Impedance	50 Ohm

B. Material & Mechanical Characteristics

Material of Radiator	CU
Material of Plastic	Body: TPEE Hinge: ABS Holder: POM
Connector Type	SMA Reverse Female
Cable Type	RG174
Connector Pull Test	≥ 3 Kg

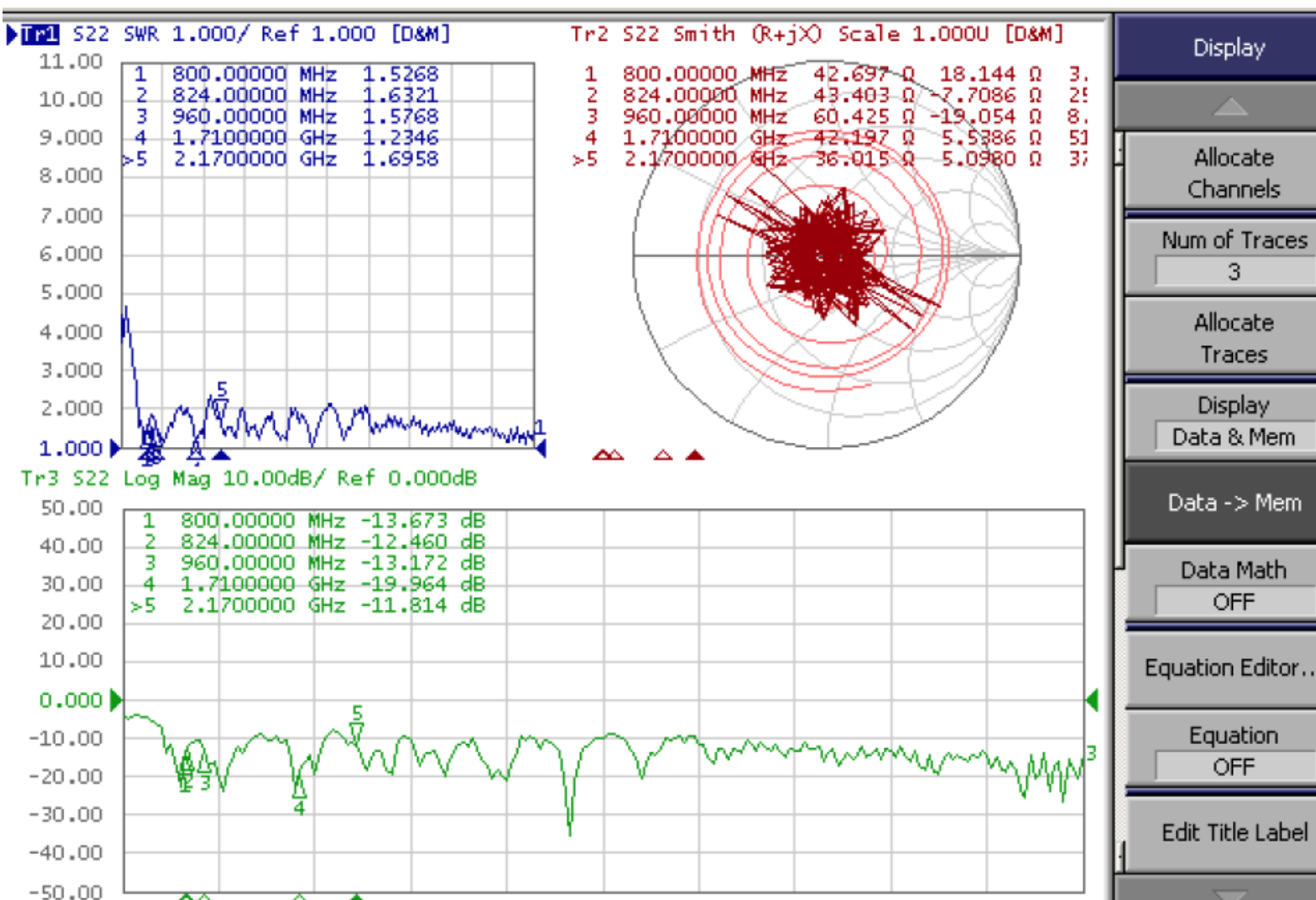
C. Environmental

Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Reliability experiments

Test items	Test Method:	request	outcome
pulling force	The product terminal pull is defined individually	Comply with the specifications of the test object; Frequency Offset $\leq$ 5%	PASS
size	Check size, color, material, packaging and finish	Meets DUT specifications	PASS
Salt spray	Temperature 35° C; Humidity $\geq$ 95%; brine concentration $\geq$ 5%; Test 24H	No obvious appearance defects; Frequency Offset $\leq$ 5%	PASS
Constant temperature and humidity	Temperature: 80° C test: 12H to -40° C test: 12H; Humidity $\geq$ 90%; TIME 24H	After 2 hours of recovery, there was no obvious poor appearance; Frequency Offset $\leq$ 5%	PASS
aging	Temperature 80° C, test 24H	No obvious appearance defects; Frequency Offset $\leq$ 5%	PASS

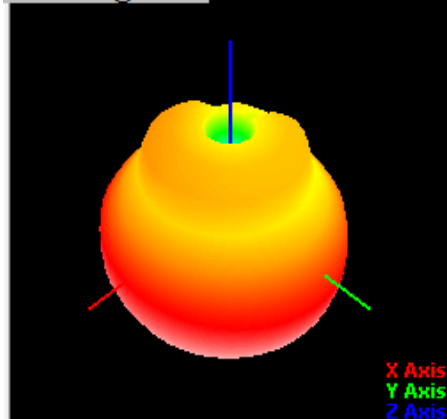
天線輻射參數測試數據圖



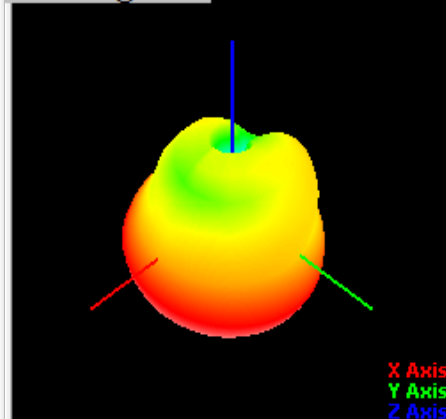
4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	700.0	820.0	960.0	1700.0	1900.0	2100.0	2300.0	2500.0	2700.0
Efficiency (%)	35.73	35.70	48.70	51.90	52.60	55.30	55.90	76.70	34.2
Gain (dBi)	1.9	1.88	2.14	2.81	2.52	2.22	2.32	2.36	1.70

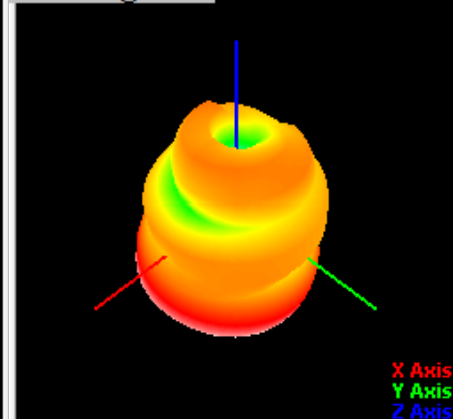
700.00MHz@T45P45



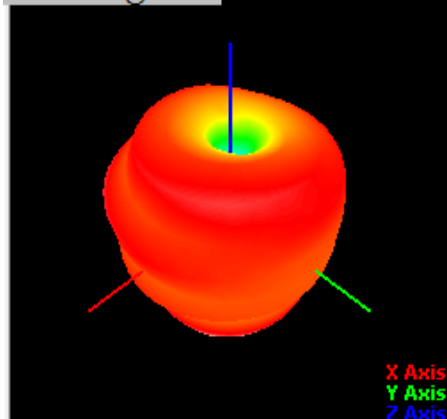
820.00MHz@T45P45



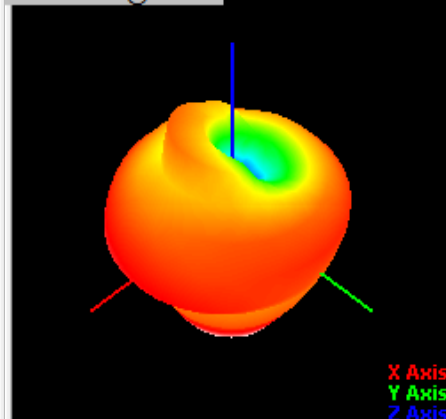
960.00MHz@T45P45



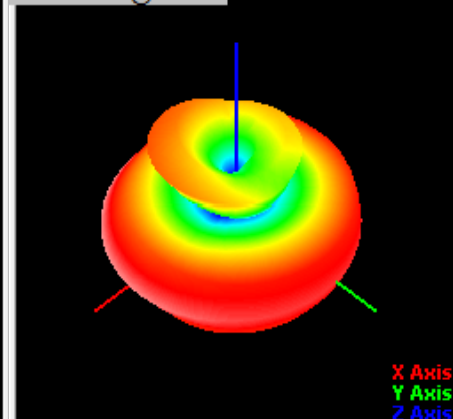
1700.00MHz@T45P45



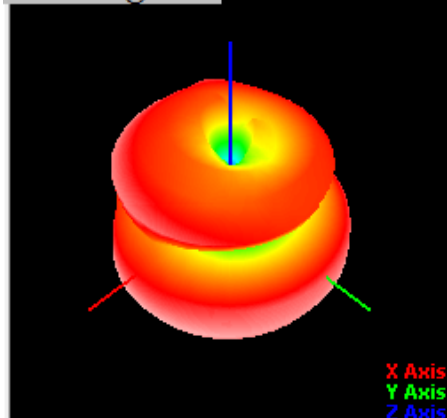
1900.00MHz@T45P45



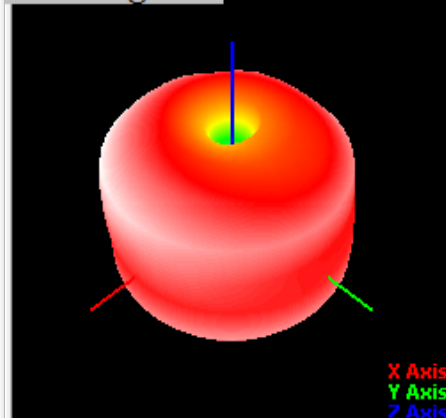
2100.00MHz@T45P45



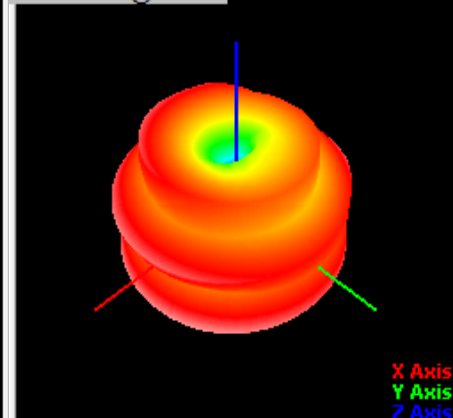
2300.00MHz@T45P45



2500.00MHz@T45P45



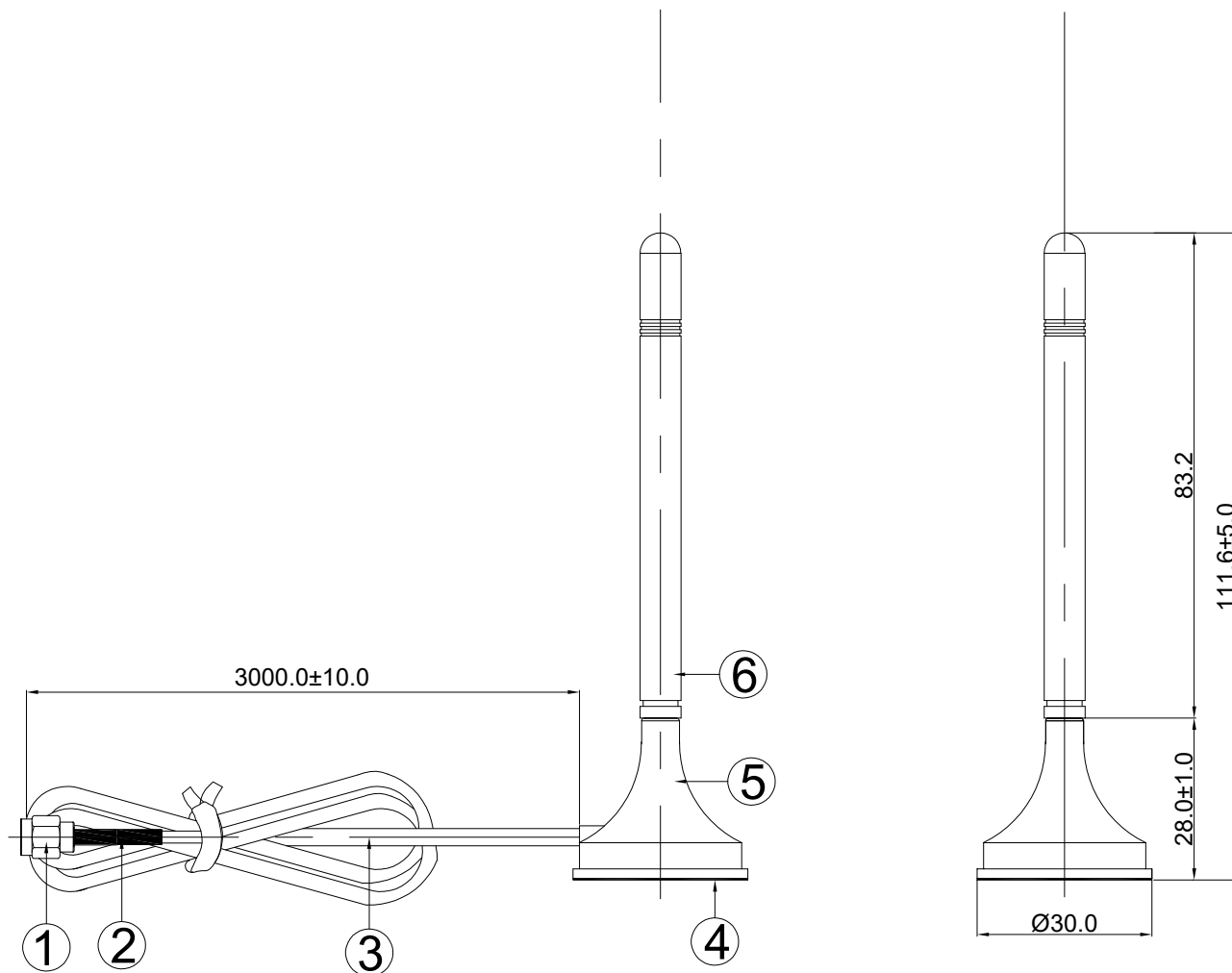
2700.00MHz@T45P45



RoHS
Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	first edition	2023-07-15



6	4G Antenna	Ø7.3*83.2mm Black	1
5	Lnner Mold	Ø30*27.5mm Black	1
4	EVA	Ø29.5*0.8mm Black	1
3	Cable	RG174 Black	1
2	Heat Shrink Tube	Ø4.0*20.0mm Black	1
1	SMA Reverse Female	Au Plated	1
NO	PART NAME	DESCRIPTION	Q.TY



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PART NAME: 4G Antenna L=3000mm

PART NO.: ZCB0827-19B05SM-3M

DATE: 2023-07-15

APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
		HWC	X.X ±0.50
			X.XX±0.15
			X° ±3°