

APPROVAL

Version: A1

CUSTOMER:	
DESCRIPTION:	2.4/5.8 GHz Built-in PCB Antenna, 100 mm (Gen. 1)
PART NO.:	YC030-0161
CUSTOMER PART NO.:	
DATE:	2021-08-06

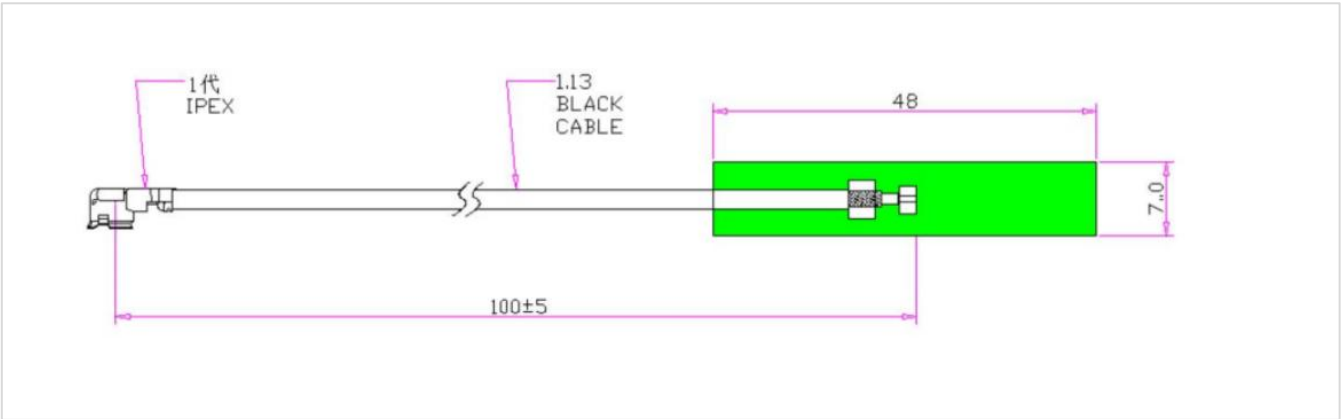
Company Address: Room 211, Building 1, No. 1351 Gongchang Road,
Shangcun Community, Gongming Subdistrict, Guangming District,
Shenzhen, Guangdong Province, China

Technical Specifications			
Electrical Specifications			
Frequency Range	2400-5800 MHz	VSWR	≤ 2.0
Gain	2 dBi	Input Impedance	50 Ω
Mechanical Specifications			
Antenna Color	BLACK	Input Connector	IPEX
Working Temperature	-40°C to +85°C	Working Humidity	20%-80%

Product Photo:



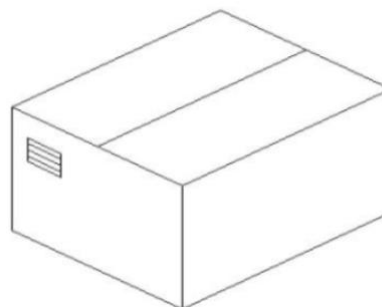
Dimension Drawing:



Packaging Diagram:

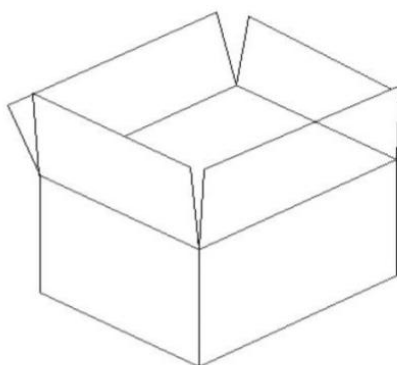


200 pcs/bag



5,000 pcs/carton

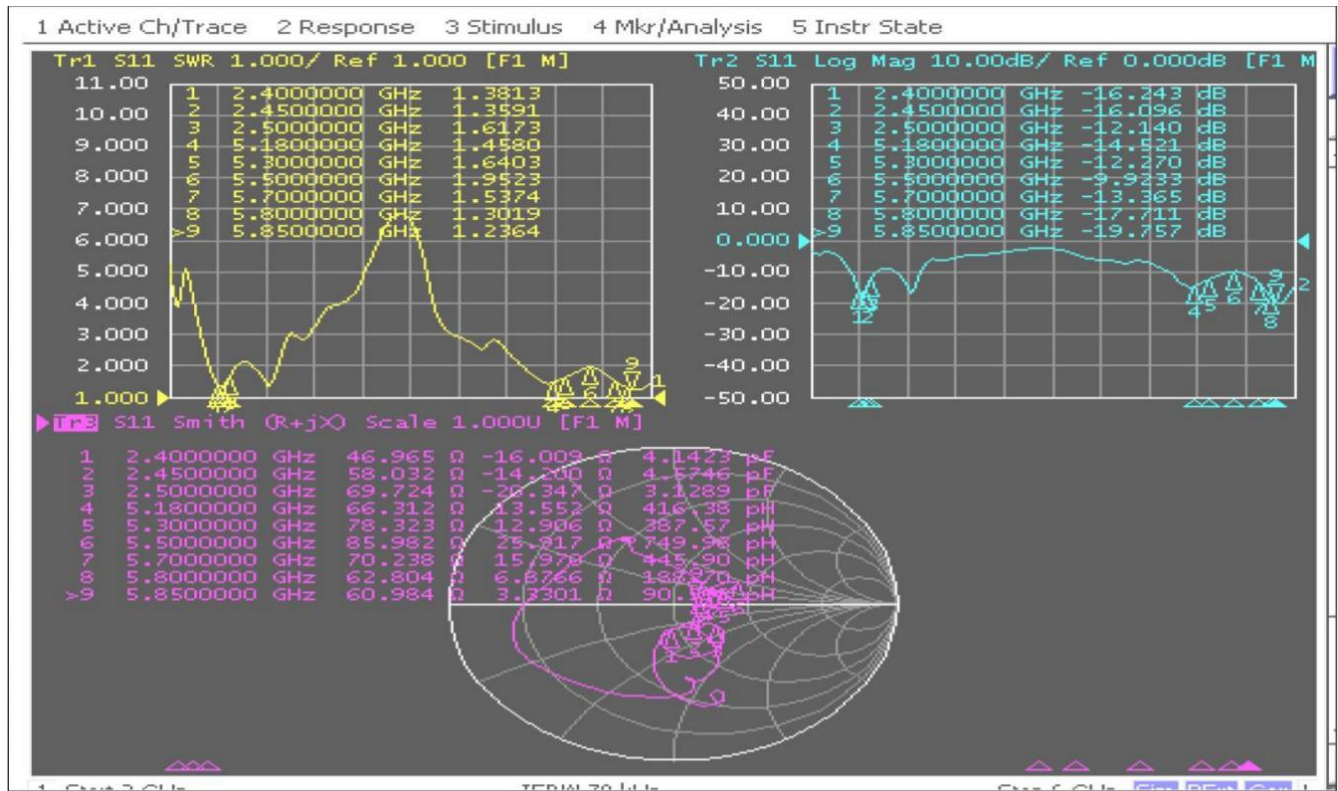
Affix a product label to each carton.



Environmental Performance Tests:

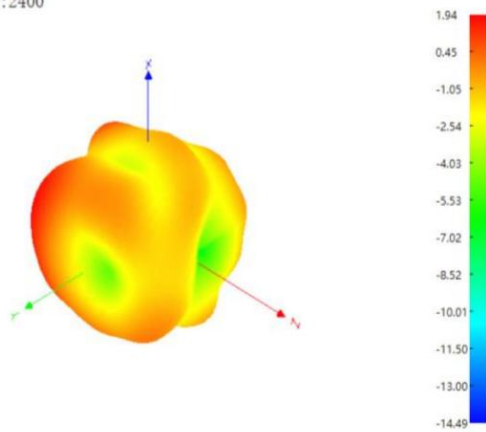
Item	Test Conditions	Requirement
Storage Environment	Unless otherwise specified: 1. Temperature: -30°C to +80°C 2. Relative humidity: 45%-85% 3. Air pressure: 86-106 kPa	Electrical and mechanical performance shall be normal.
High/Low Temperature Test	Cycle 5 times between +70°C and -40°C; then keep under normal conditions for 1-2 hours and inspect appearance quality.	Dimensions shall comply with specifications; mechanical and electrical performance shall meet requirements.
Damp Heat Test	Relative humidity: 95% ± 3%; test temperature: 40°C. After 2 hours, measure electrical performance within 5 minutes of removal; after 1-2 hours under normal conditions, inspect appearance quality.	Dimensions shall comply with specifications; mechanical and electrical performance shall meet requirements.
Vibration Test	Frequency range: 10-55 Hz; displacement amplitude: 0.35 mm; acceleration amplitude: 50.0 m/s ² ; 30 sweep cycles.	Electrical and mechanical performance shall be normal.
Drop Test	Free-drop 3 times from a height of 1 m along each of three mutually perpendicular axes.	Electrical and mechanical performance shall be normal.

Sample Testing:

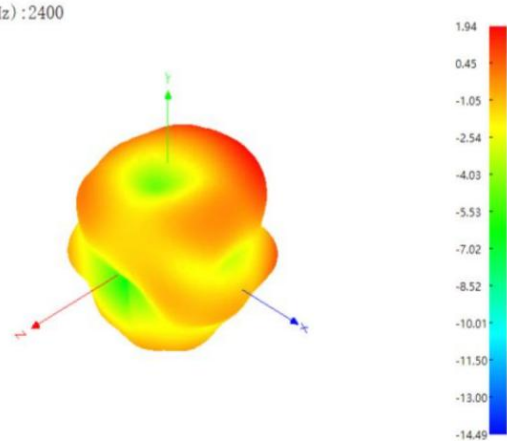


Gain Test:

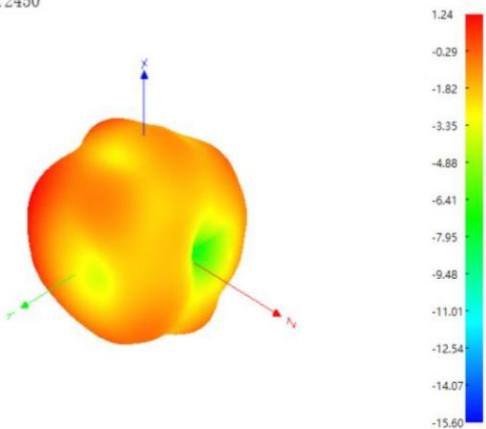
Frequency (MHz) : 2400



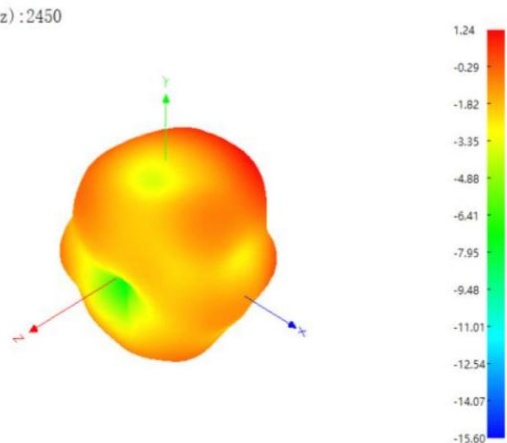
Frequency (MHz) : 2400



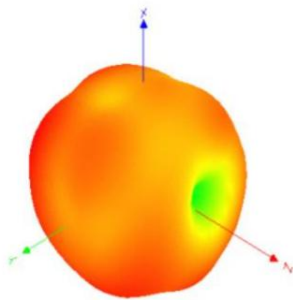
Frequency (MHz) : 2450



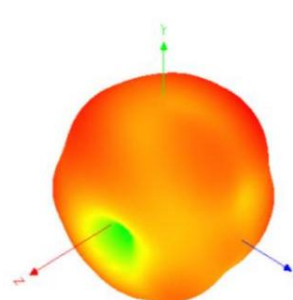
Frequency (MHz) : 2450



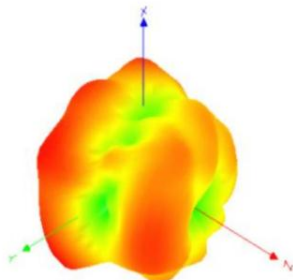
Frequency (MHz) :2500



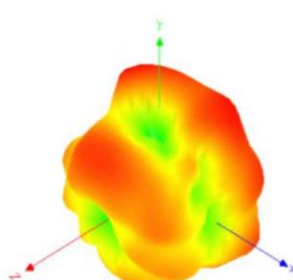
Frequency (MHz) :2500



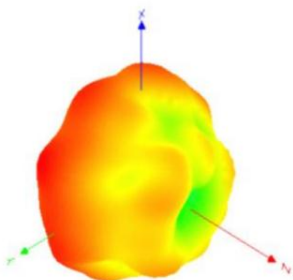
Frequency (MHz) :5200



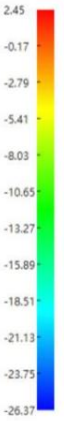
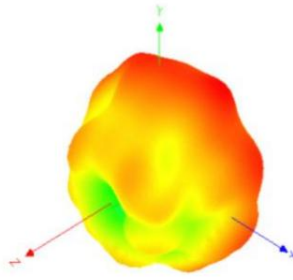
Frequency (MHz) :5200



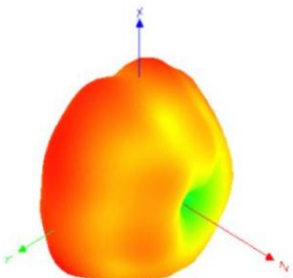
Frequency (MHz) :5500



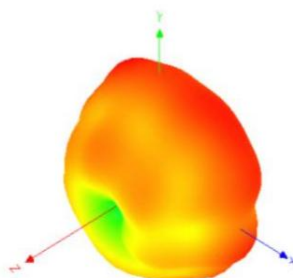
Frequency (MHz) :5500

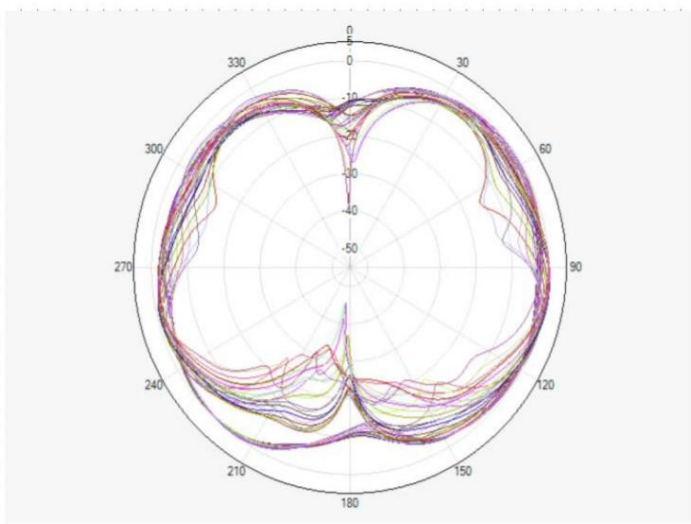
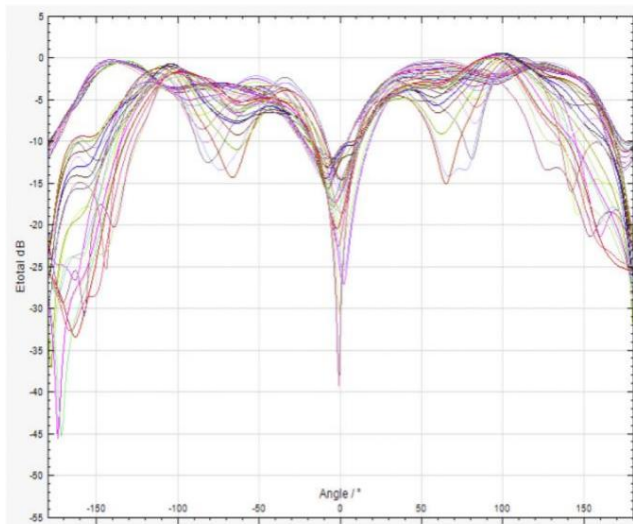


Frequency (MHz) :5800



Frequency (MHz) :5800





Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.94	-3.17	48.19
2410	1.81	-3.11	48.87
2420	1.68	-3.02	49.89
2430	1.5	-2.98	50.35
2440	1.37	-2.9	51.29
2450	1.25	-2.89	51.4
2460	1	-2.97	50.47
2470	0.91	-2.85	51.88
2480	0.83	-2.67	54.08
2490	0.51	-2.72	53.46
2500	0.24	-2.65	54.33
5000	1.17	-2.91	51.17
5050	0.93	-3.05	49.55
5100	0.94	-3.31	46.67
5150	1.52	-3.41	45.6
5200	1.93	-3.57	43.95
5250	2.56	-3.53	44.36
5300	2.46	-3.61	43.55
5350	2.41	-3.36	46.13
5400	2.3	-3.12	48.75
5450	2.57	-2.77	52.84
5500	2.61	-2.62	54.7
5550	2.1	-2.71	53.58
5600	1.53	-2.72	53.46
5650	1.18	-2.66	54.2
5700	1.27	-2.88	51.52
5750	1.33	-2.92	51.05
5800	1.06	-3.26	47.21
5850	1.77	-3.05	49.55
5900	1.74	-3.36	46.13
5950	1.39	-3.63	43.35
6000	1.52	-3.71	42.56

