

SPECIFICATION

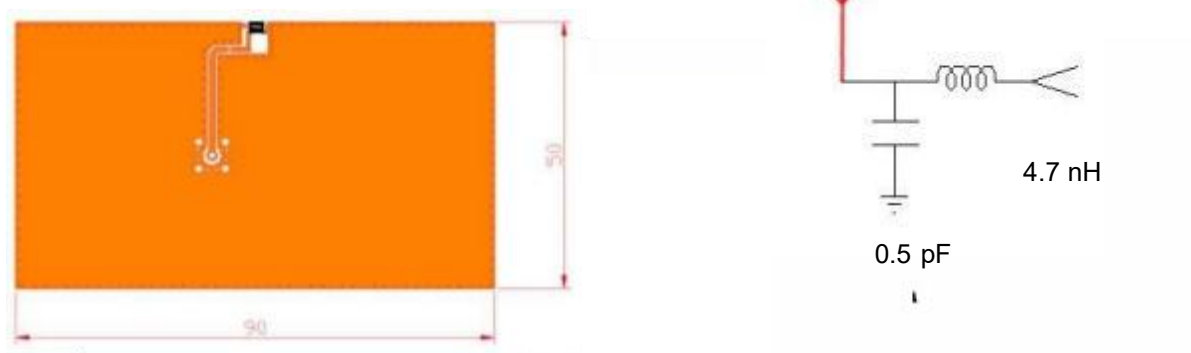
Ceramic Antenna 3216 Size

2400-2500 MHz

P/N: HXD-BT51

manufacturer: Shenzhen QinxinTechnology Co., Ltd.
address: 101, Building A, 36 Dongcheng Road, Liulian
Community, Pingshan Subdistrict, Pingshan District, Shenzhen

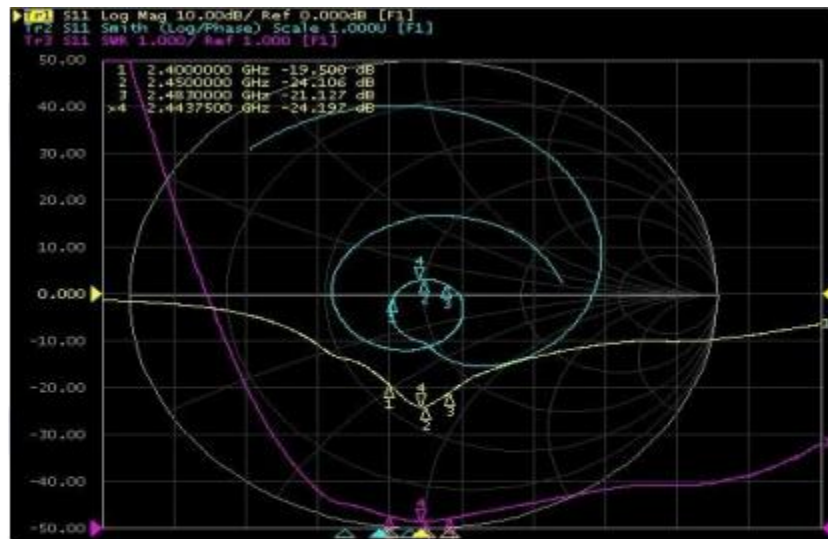
4. Evaluation Board Size and Matching Circuits



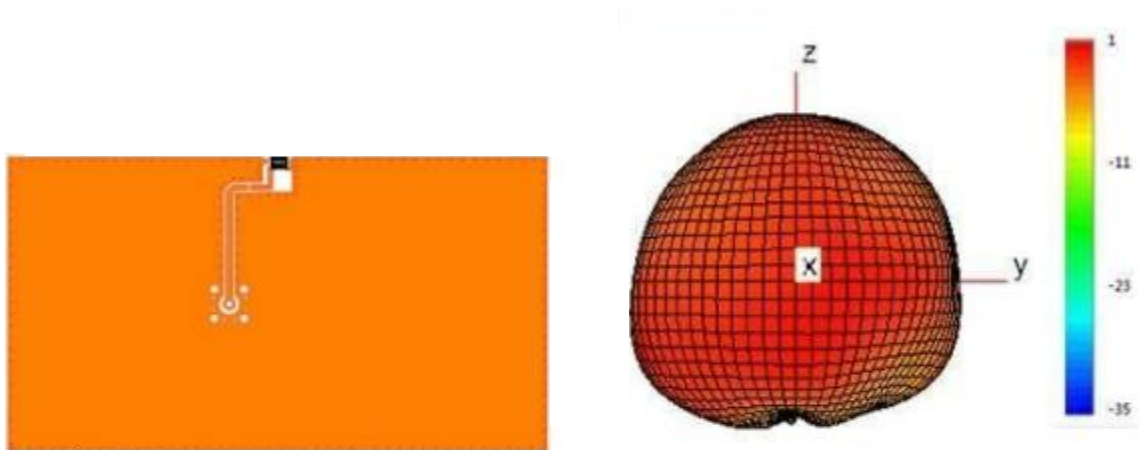
5. Electrical Characteristics

Part Number	HM3216ANT2450-HM02
Central Frequency	2450 MHz
Bandwidth	100(typ.) MHz
V.S.W.R	≤2.0
Peak Gain	4.34 dBi
Impedance	50 Ohm
Polarization	Linear
Azimuth Beamwidth	Omni-directional

6. Return Loss (S11)

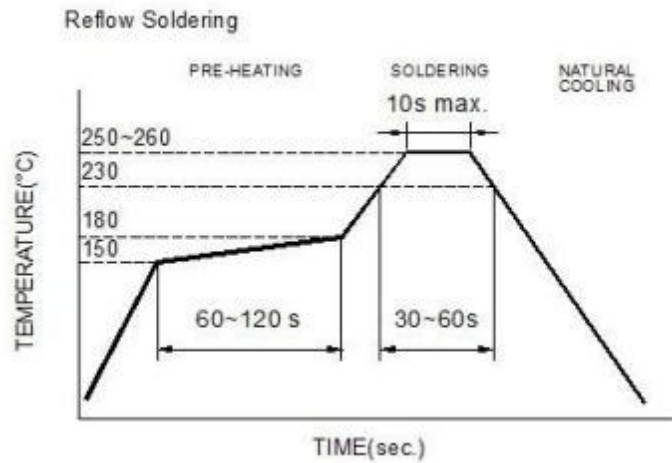


7. Radiation Pattern & Efficiency

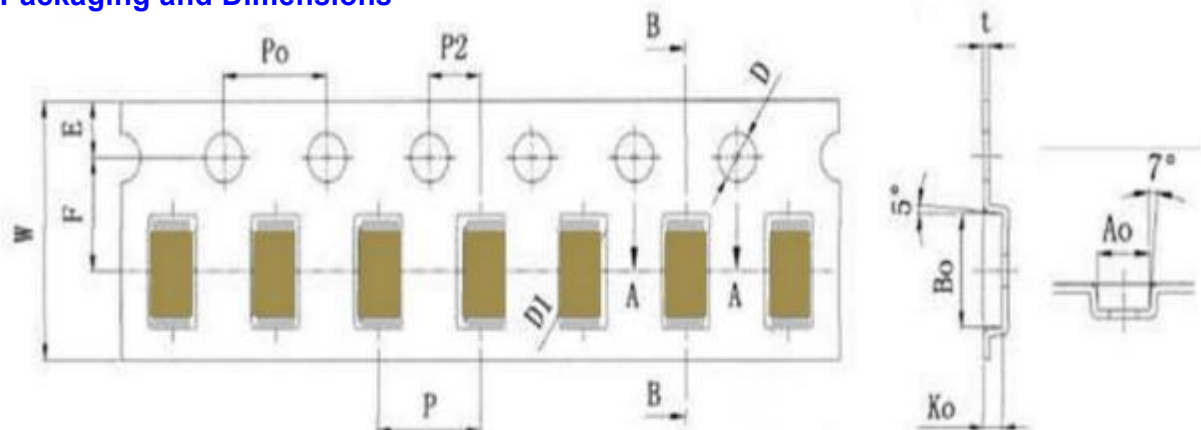


Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-1.87	-1.67	-1.94
Efficiency (%)	65	68	64
Gain (dBi)	3.12	4.34	3.45

8. Reflow Soldering Standard Condition



9. Packaging and Dimensions



外觀	規格	公差
W	8.00	±0.10
P	4.00	±0.10
E	1.75	±0.10
F	3.50	±0.05
P2	2.00	±0.05
D	1.50	+0.10 -0.00
D1	1.00	±0.10
Po	4.00	±0.10
10Po	40.00	±0.20

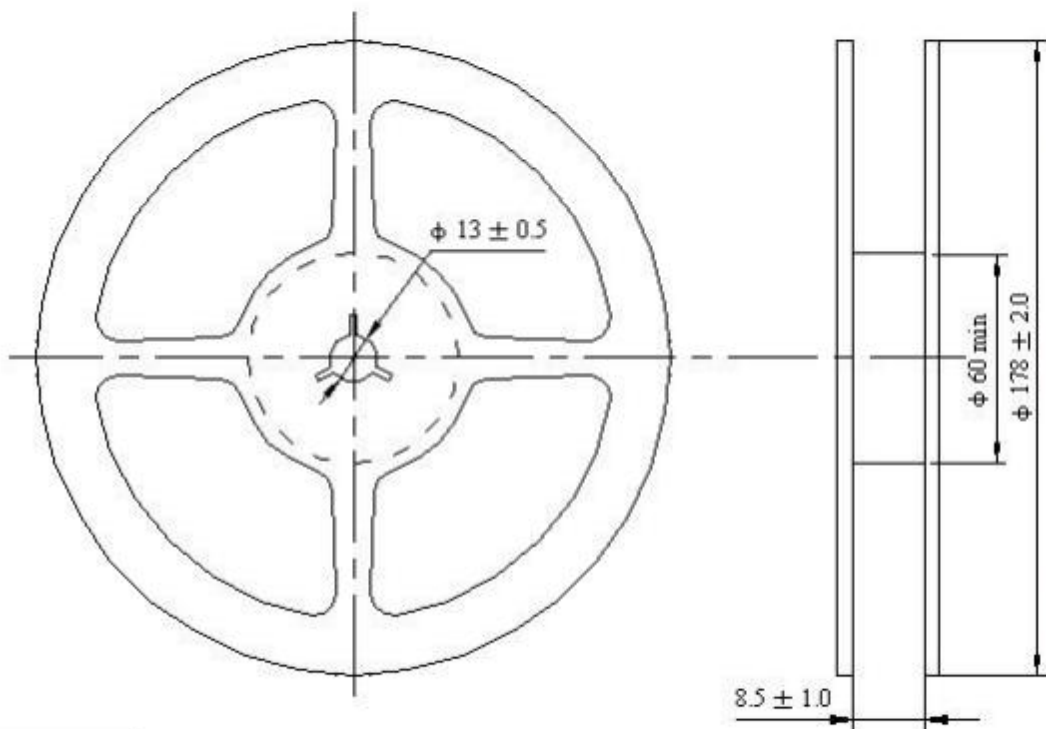
外觀	規格	公差
Ao	1.85	±0.10
Bo	3.50	±0.10
Ko	0.73	±0.10
t	0.23	±0.05

Remarks for Package

Reserve a length of 150 ~200mm for the trailer of the carrier and 250 ~300 mm for the leader of the carrier and further 250mm of cover tape at the leading part of the carrier.



Reel (6000 pcs/Reel)



Storage Period

Oxidizable Material, 12 months in vacuum sealed bag, please repack within 168 hours by re-seal the package treatment after using.

Storage Temperature Range : <30 degree C, Humidity : <60%RH

10. Dependability Test

Test item	Test condition / Test method	Specification
Solderability IEC 60068-2-58 GB/T2423.28	*Solder bath temperature: 240: 5°C *Immersion time: 2: 0.5 sec Solder: Sn96.5Ag3.0Gu0.5 for lead-free.	At least 95% of a surface of each terminal electrode must be covered by fresh solder.
Leaching (Resistance to dissolution of metallization) JIS C5101	*Solder bath temperature: 260: 5°C *Leaching immersion time: 10: 1 sec Solder : Sn96.5 Ag3.0 Gu0.5 for lead-free.	Loss of metallization on the edges of each electrode shall not exceed 25%.
Resistance to soldering heat IEC 60068-2-58 GB/T2423.28	*Preheating temperature: 120~150°C, 1 minute. *Solder temperature: 260: 5°C *Immersion time: 10: 1 sec Solder: Sn96.5Ag3.0Gu0.5 for lead-free Measurement to be made after keeping at room temperature for 24: 2 hrs.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature. Loss of metallization on the edges of each electrode shall not exceed 25%.
Drop Test IEC 60068-2-32 GB/T2423.8 Customer' s specification.	*Height: 50 cm *Test Surface: Rigid surface of concrete or steel. *Times: 6 surfaces for each units; 2 times for each side.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature.
Vibration IEC 60068-2-6 GB/T 2423.10	*Frequency: 10Hz~55Hz~10Hz(1min) *Total amplitude: 1.5mm *Test times: 6hrs.(Two hrs each in three mutually perpendicular directions)	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature.
Adhesive Strength of Termination IEC60068-2-21 GB/T 2423.6	*Pressurizing force: 5N($\leq$ 0603); 10N(>0603) *Test time:10: 1 sec	No remarkable damage or removal of the termination.

Bending test IEC 60068-2-21 GB/T 2423.29	The middle part of substrate shall be pressurized by means of the pressurizing rod at a rate of about 1 mm/s per second until the deflection becomes 2mm and then pressure shall be maintained for 10: 1 sec. Measurement to be made after keeping at room temperature for 24: 2 hours.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature.
Temperature cycle IEC60068-2-14 GB/T 2423.22	30 minutes at -40°C: 2°C. 10~15 minutes at room temperature. 30 minutes at +85°C: 2°C. 10~15 minutes at room temperature. Total 100 continuous cycles Measurement to be made after keeping at room temperature for 24: 2 hrs.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature.
High temperature IEC 60068-2-2 GB/T2423.2	*Temperature: 85: 2°C. *Test duration: 500+24/-0 hours. Measurement to be made after keeping at room temperature for 24: 2 hrs.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics.
Humidity (steady conditions) IEC60068-2-3 GB/T 2423.3	*Humidity: 85: 5%R.H. *Temperature: 85: 2°C. *Time: 500+24/-0 hrs. Measurement to be made after keeping at room temperature for 24: 2 hrs ※ 200hrs measuring the first data then 300hrs data.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature.
Low temperature IEC 60068-2-1 GB/T2423.1	*Temperature: -40: 2°C. *Test duration: 500+24/-0 hours Measurement to be made after keeping at room temperature for 24: 2 hrs.	No mechanical damage. Electrical specification shall satisfy the descriptions in electrical characteristics at the room temperature.