

Antenna Specification

Issued No. : SLANT180901

DESCRIPTION : Chip series antenna 2.4 GHz

Bandwidth 100MHz

NOMINAL FREQ. : 2.4GHz

Antenna gain : 1.81 dBi

TAITIEN MODEL : DN02450M31102

REVISION DATE : 01

: 07/18/2022

Approved	Checked	Prepared

Manufacture :

Shenzhen Fengrui Communication Technology Co., Ltd
Room 2903, Building 4, No. 3018, Longgang Avenue, Pingdi Street Central
Community, Longgang District, Shenzhen

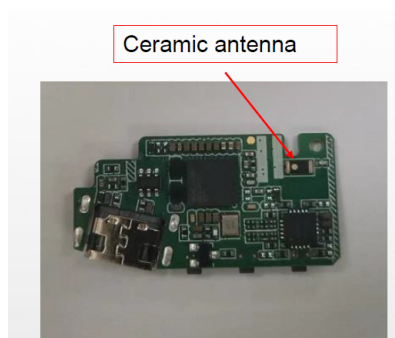
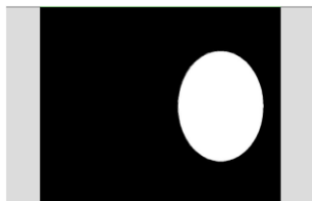
1.SCOPE :This specification applies to Chip series antenna

2.Rating:

Operating Temperature : $-25^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Storage Temperature : $20^{\circ}\text{C} \sim 25^{\circ}\text{C}$ R.H. 65% (For Reference)

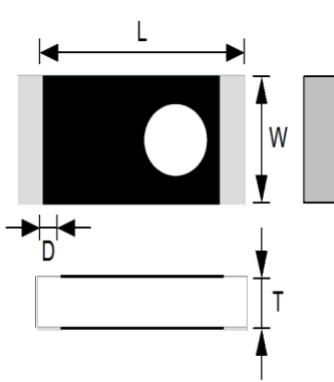
3.Marking:



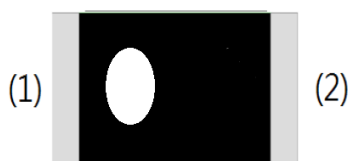
4.Standard Testing Condition:

	Unless otherwise specified	In case of doubt
Humidity	Ordinary Humidity(25 to 85% RH)	60 to 70 % RH
Temperature	Ordinary Temperature(15 to 35°C)	$20 \pm 2^{\circ}\text{C}$

5.Configuration and Dimensions:

Figure	Dimensions(mm)	
	L	3.2 ± 0.2
	W	1.6 ± 0.2
	D	0.5 ± 0.2
	T	0.5 ± 0.2

TERMINAL CONFIGURATION



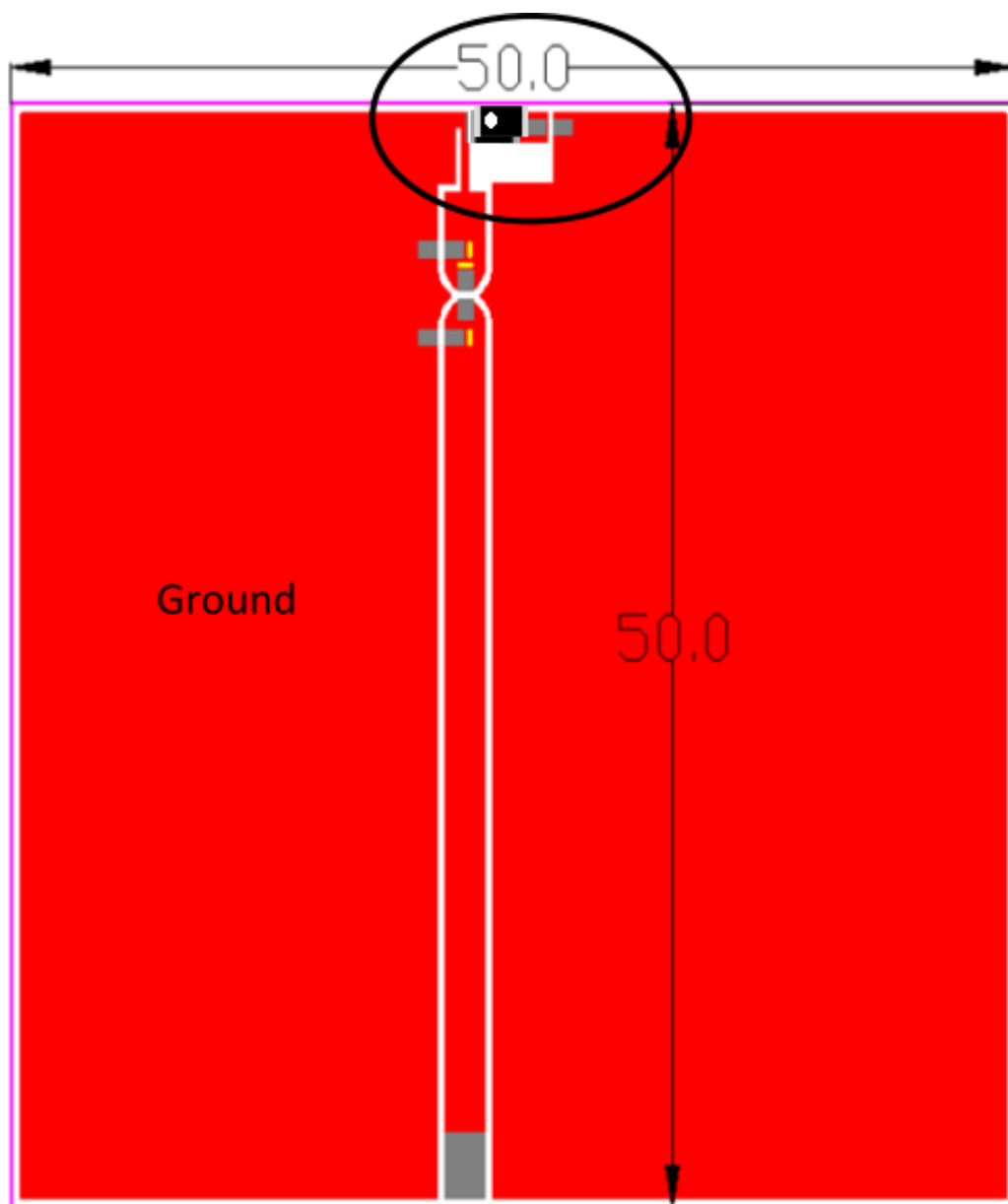
(1) Feed Termination
(2) Solder Termination

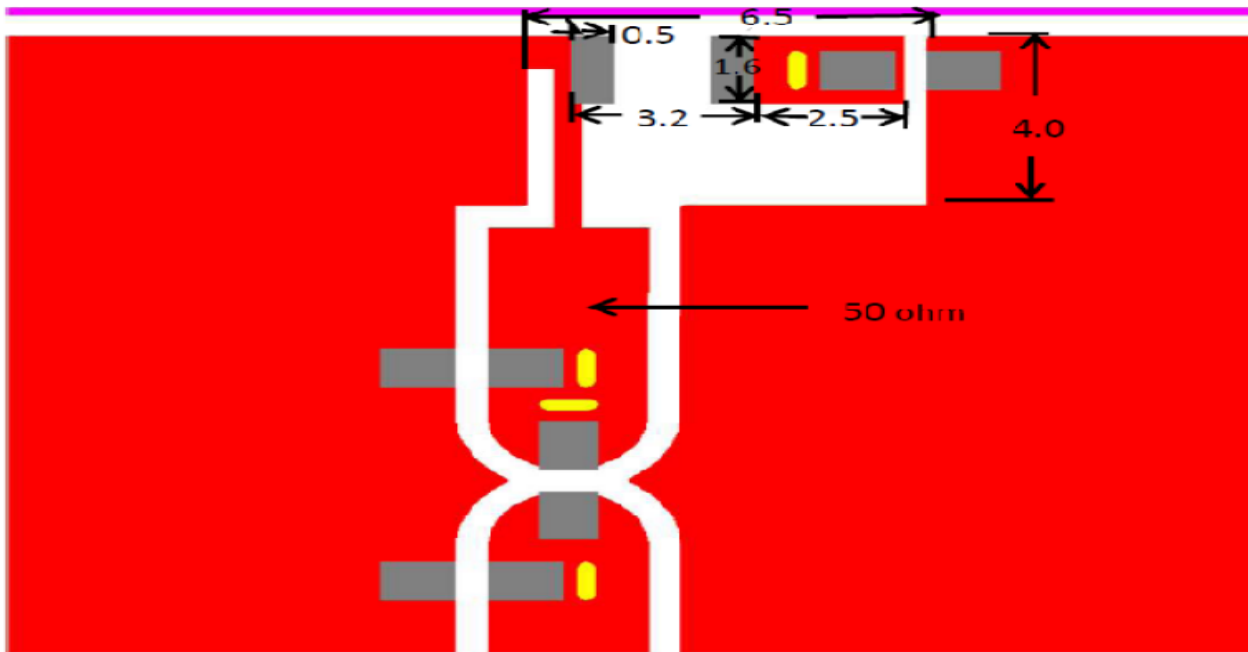
6. Electrical Characteristics:

Part No.	Impedance (Ω)	Test Freq. (GHz)	Bandwidth* (MHz)	Peak Gain* (dBi)	VSWR (max)	Polarization (Linear)
1201-ANT-00061	50	2.4	100	1~2	2	Linear

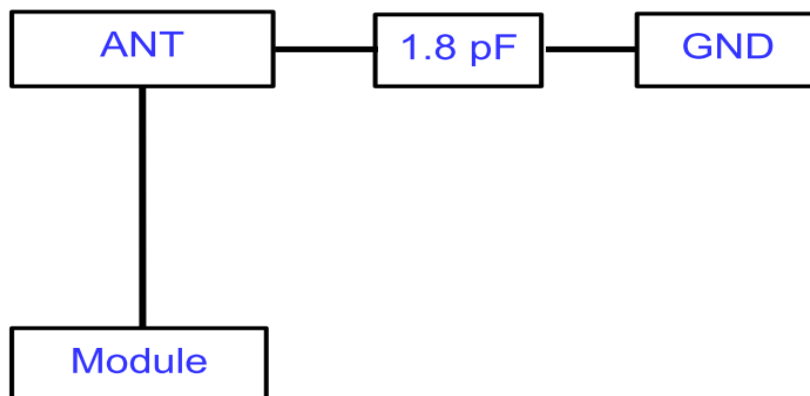
7. Dimensions and Recommended PC Board Pattern:

NOTE : Dimensions in mm

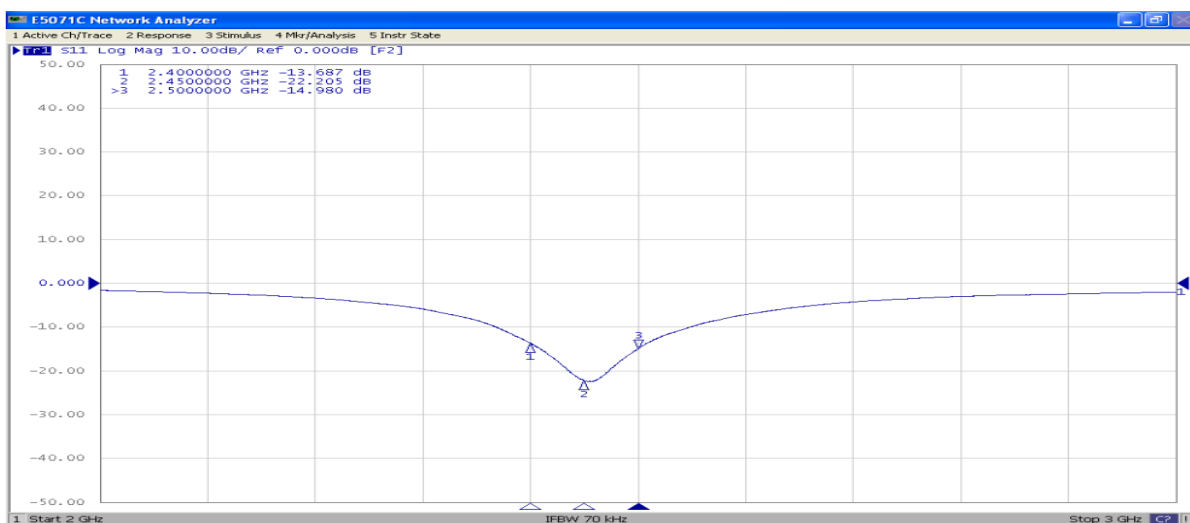




8. Matching Circuit:



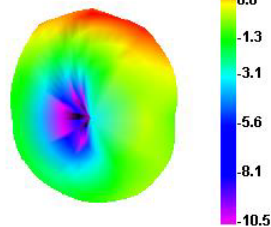
Return Loss



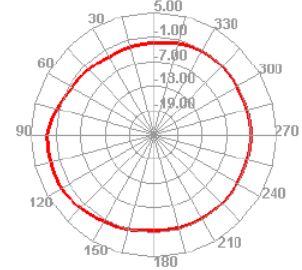
II. Test Result

2.3 3D/2D Gain Pattern

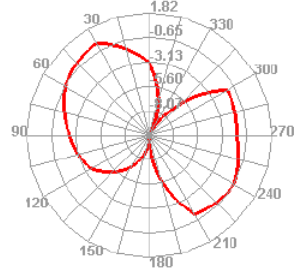
2450.000MHz



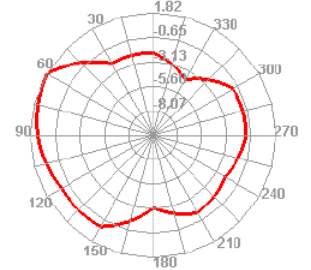
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



II. Test Result

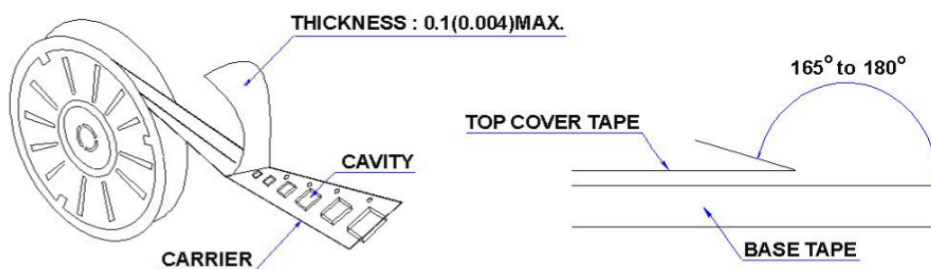
2.4 Efficiency And Peak Gain

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	36.13	1.32
2420	37.21	1.54
2440	38.07	1.72
2450	38.36	1.81
2460	38.06	1.77
2480	37.95	1.53
2500	36.24	1.32

10. Packaging:

Packaging - Cover tape

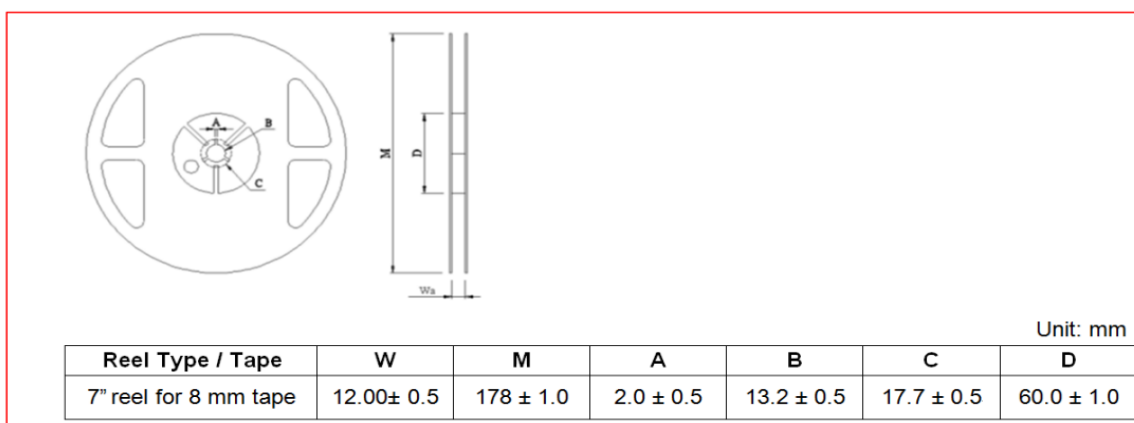
The force for tearing off cover tape is 10 to 60 grams in the arrow direction.



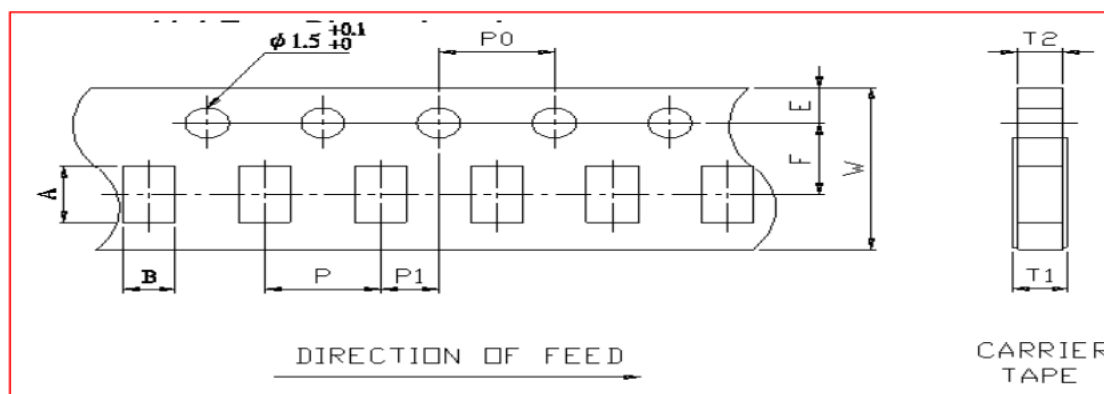
11.2 Packaging Quantity

TYPE	BULK	PCS/REEL
BTCA321605	X	5000

11.3 Reel Dimensions in mm



Tape Dimensions in mm



Note: The moisture sensitivity level (MSL) of products is classified as level 1.