

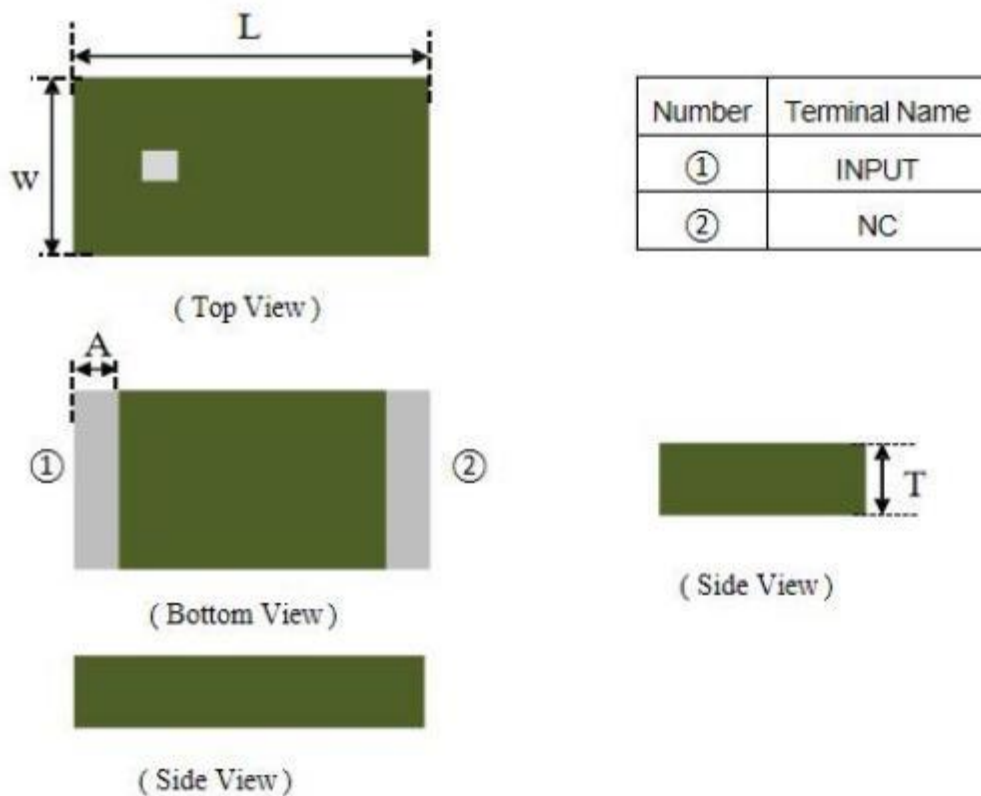
P/N: HLX321606A01

Features

- 1.Surface Mounted Devices with a small dimension of 3.6 x 1.6 x 0.6 mm³meet future miniaturization trend.
- 2.Embedded and LTCC (Low Temperature Co-fired Ceramic) technology is able to future integrate with system design as well as beautifyin g the housing of final product.
3. High Stability in Temperature / Humidity Change

Applications

1. Bluetooth
2. Wireless LAN
3. ISMband 2.4GHz wireless applications



Symbols	L	W	T	A
Dimensions	3.2+/-0.2	1.6+/-0.2	0.6+/-0.1	0.5+/-0.1

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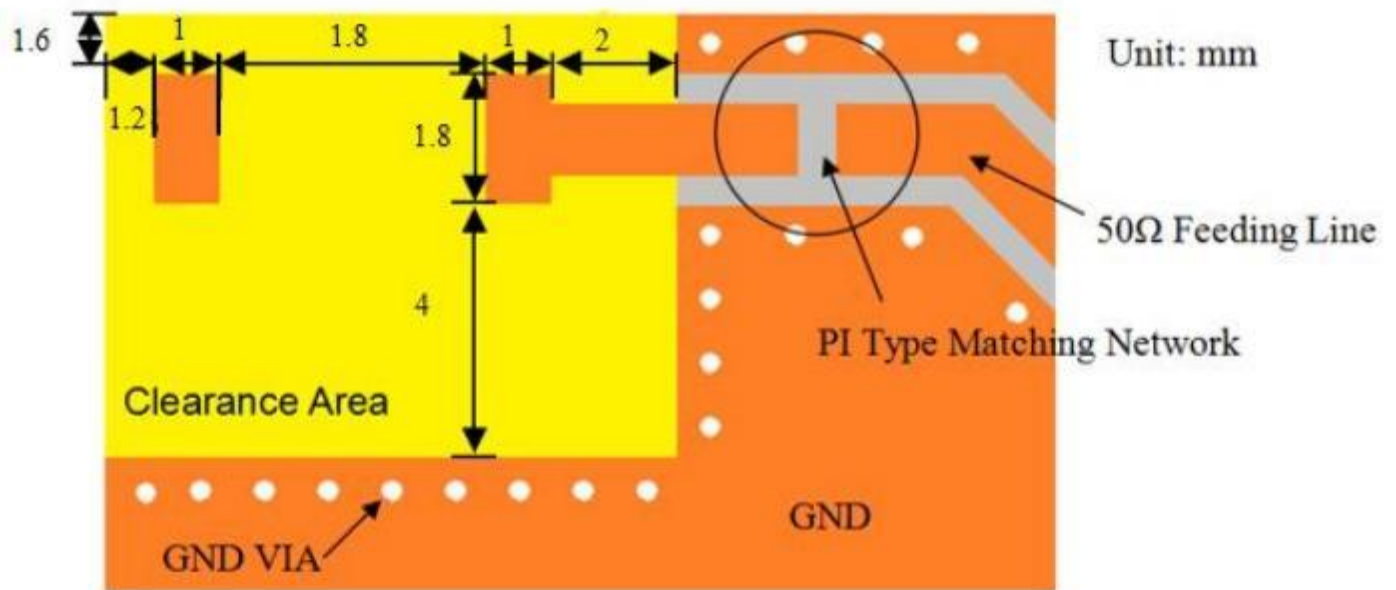
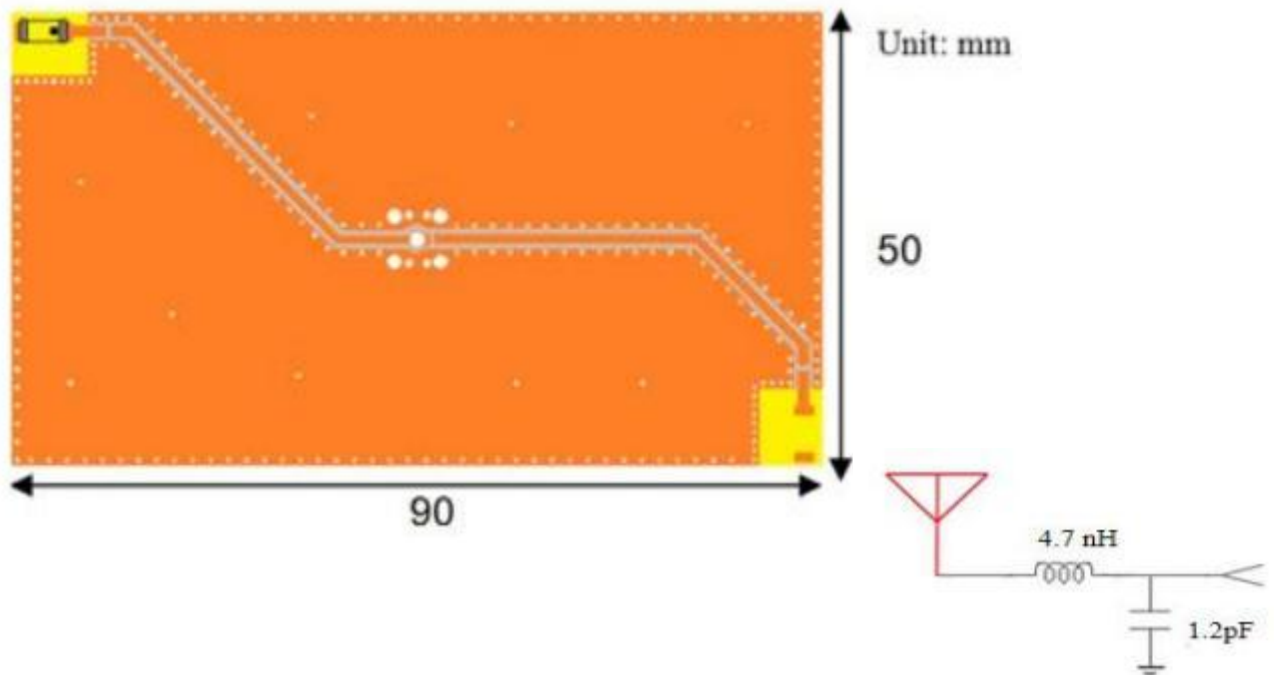


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Evaluation Board and Matching Circuits



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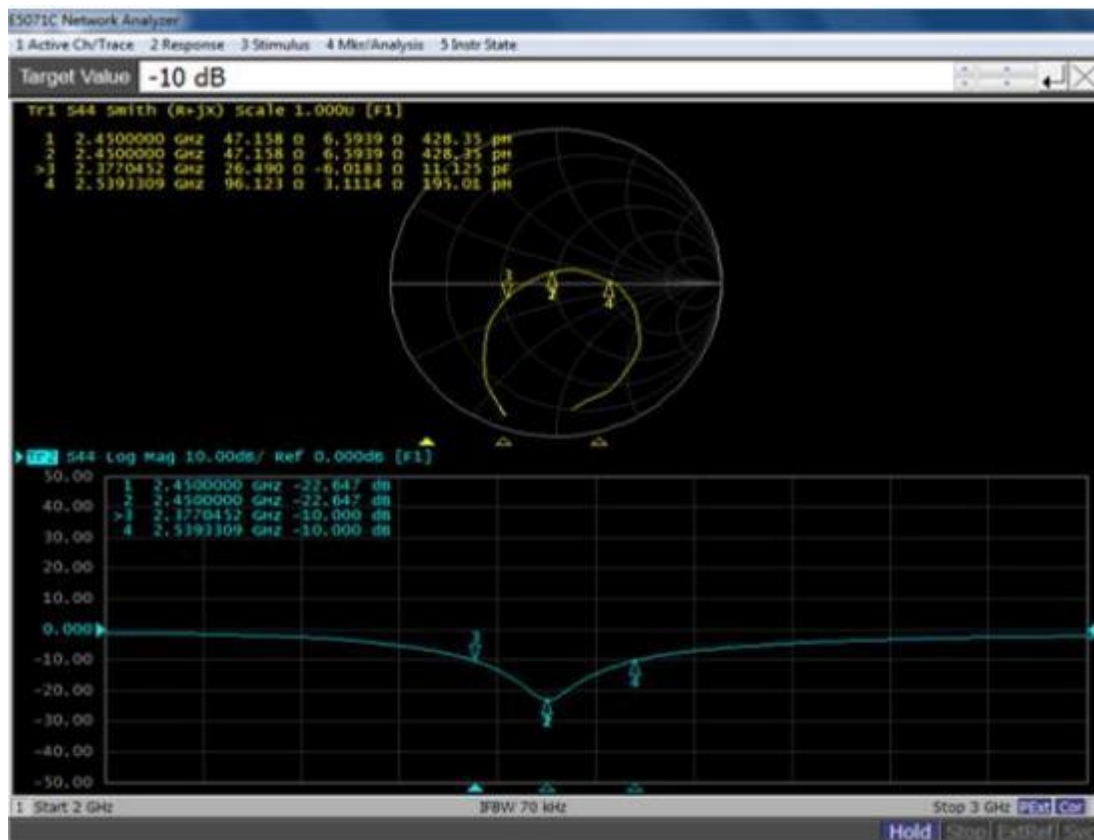
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Electrical Characteristics

No.	Item	Specifica tions
1	Central F requency	2545MHz
2	BandWidth	100 MHz typ .
3	Peak Gain	2.01 dBi
4	Return Loss	≤ 2.0
5	Polarizatio n	Linear
6	Azimuth Beam wi dth	Omni-directional
7	Impedance	50 Ω

Characteristic curve



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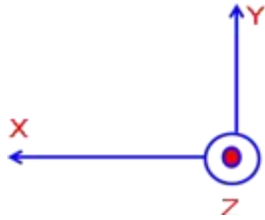
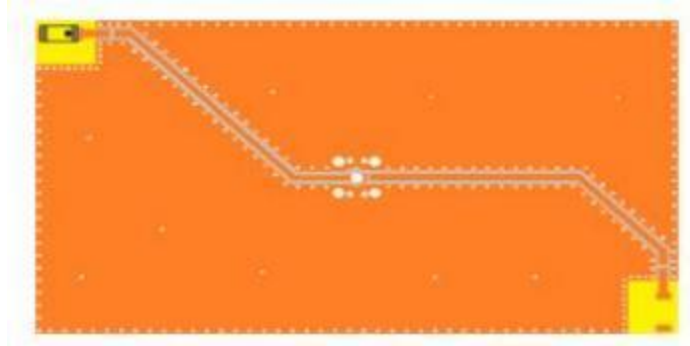


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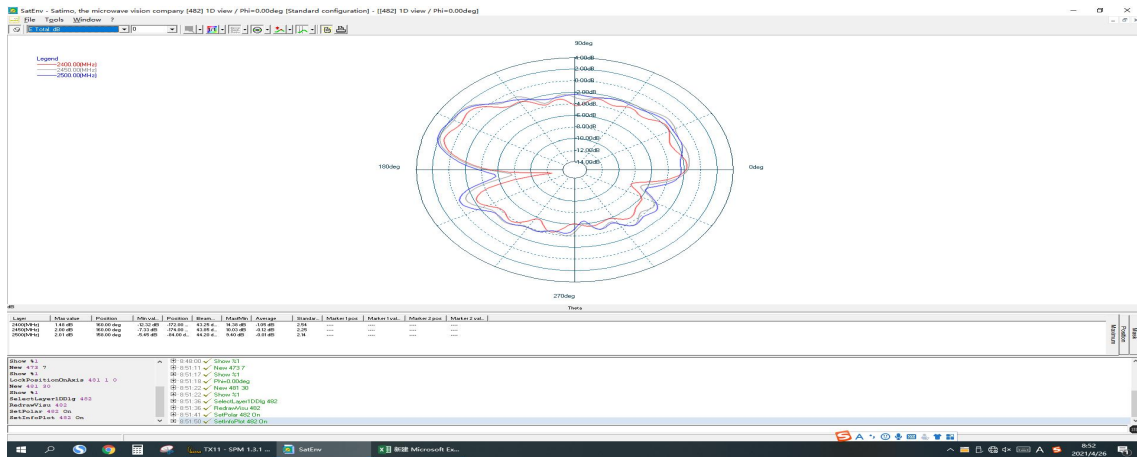
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Radiation Pattern

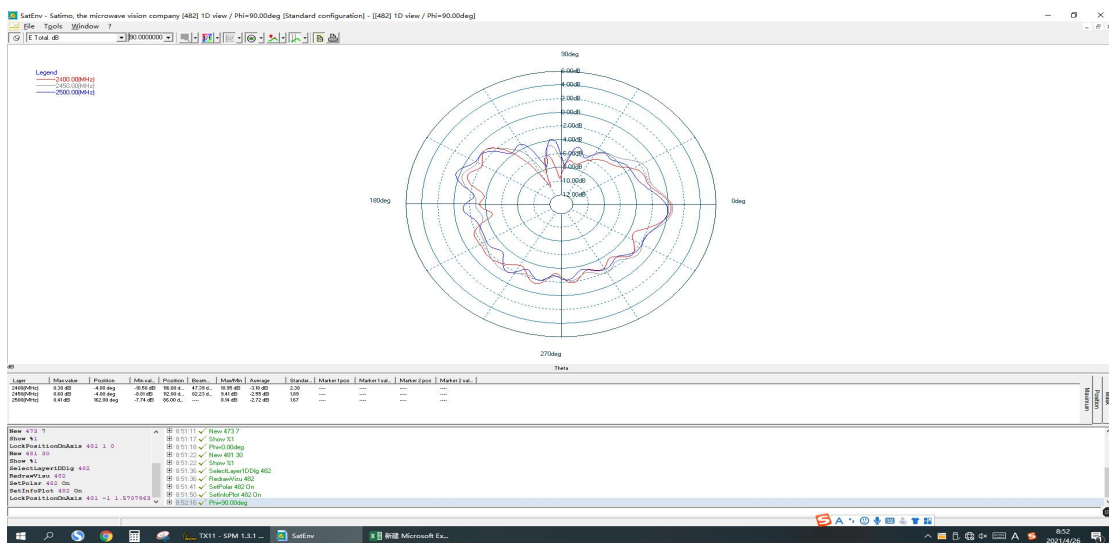
coordinates :



X-Z Plane



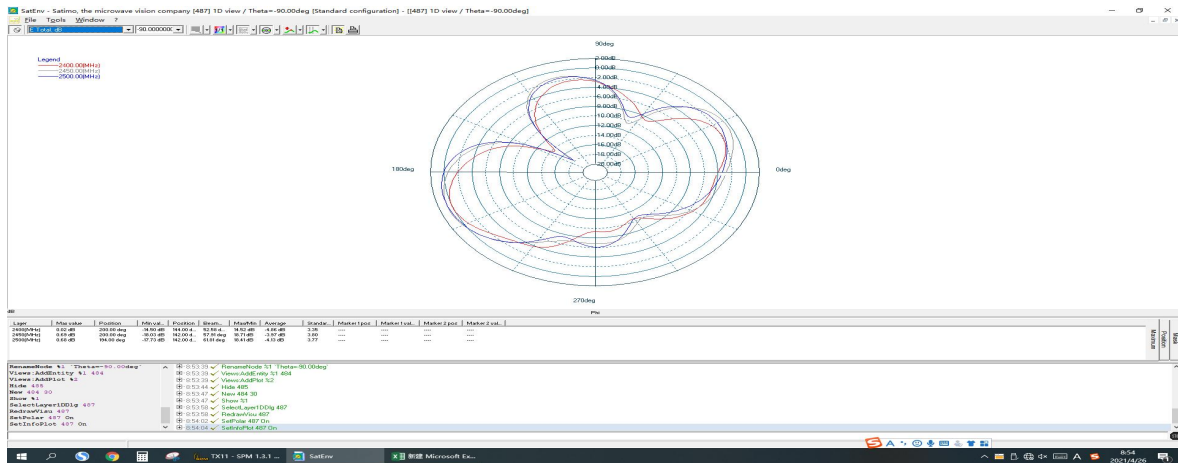
X-Y Plane



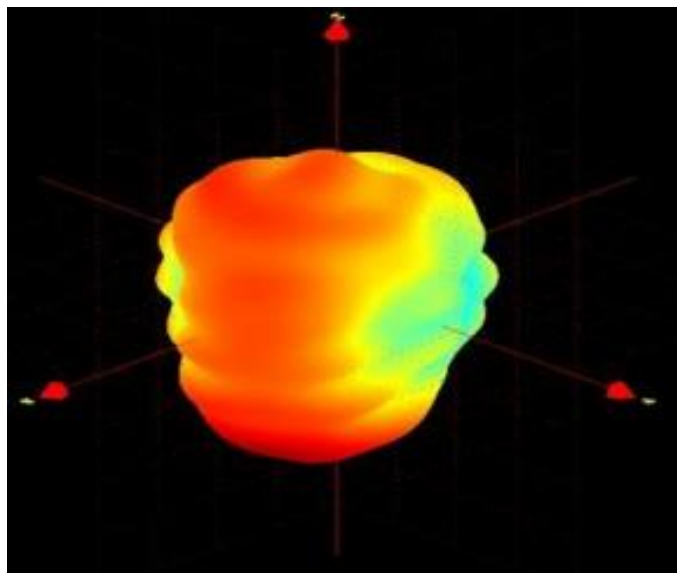
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Y-Z Plane



3D Radiation Pattern



Frequency (MH z)	2400	2450	2500
Avg.Gain (dBi)	-3 .03	-2.01	-2 .29
Peck Gain (dBi)	1 .48	2.0	2 .01
Efficiency (%)	60	72	70

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Dependability Test

Temperature range	25±5°C
Relative Humidity range	55~75%RH
Operating Temperature range	-40°C~+85°C
Storage Temperature range	-40°C~+85°C

Vibration Resist

The device should fulfill the electrical specification after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions .

Drop Shock

The device should have no mechanical damage after dropping onto the hard wooden board from the height of 100cm for 3 times each facet of the 3 dimensions of the device .

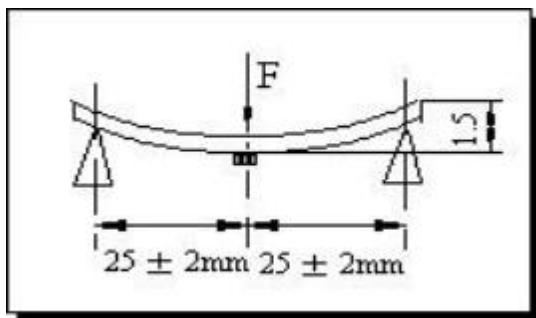
Solder Heat Proof

The device should be satisfied after preheating at 120°C~ 150°C for 120 seconds and dipping in soldering Sn at 255°C+10°C for 5±0.5 seconds , or electric iron 300°C-10°C for 3±0.5 seconds , without damage .

Adhesive Strength of Termination

The device have no remarkable damage or removal of the termination after horizontal force of 5N(≤0603); 10N(>0603)with 10±1 seconds .

Bending Resist Test



Weld the product to the center part of the PCB with the thickness $1.6 \pm 0.2\text{mm}$ as the illustration shows, and keep exerting force arrow-ward on it at speed of 1m/S , and hold for $5 \pm 1\text{s}$ at the position of 1.5mm bending distance , so far , any peeling off of the product metal coating should not be detected .

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Moisture Proof

The device should fulfill the electrical specification after exposed to the temperature $60\pm 2^{\circ}\text{C}$ and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition .

High Temperature Endurance

The device should fulfill the electrical specification after exposed to temperature $85\pm 5^{\circ}\text{C}$ for 96 ± 2 hours and 1~2 hours recovery time under normal temperature .

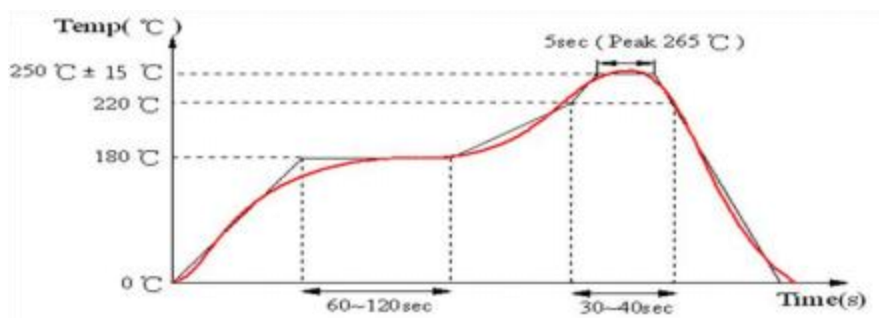
Low Temperature Endurance

The device should fulfill the electrical specification after exposed to the temperature $-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for 96 ± 2 hours and to 2 hours recovery time under normal temperature .

Temperature Cycle Test

The device should fulfill the electrical specification after exposed to the low temperature -40°C and high temperature $+85^{\circ}\text{C}$ for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

Reflow Soldering Standard Condition



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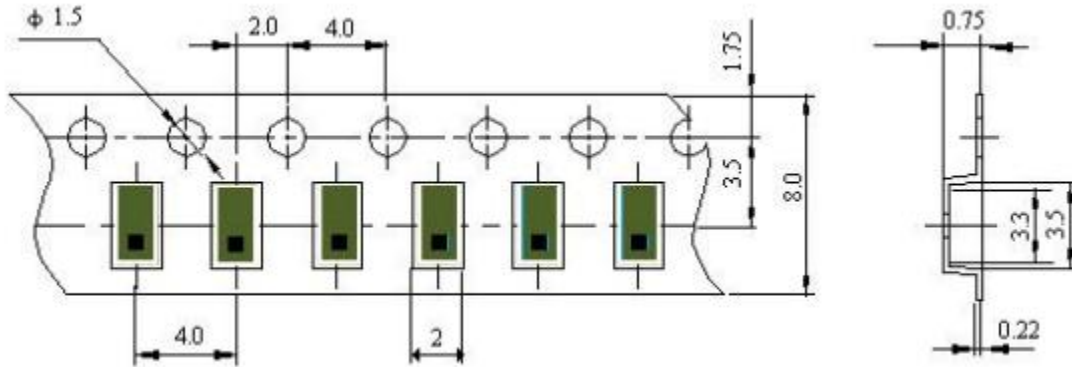
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Packaging and Dimensions (3216)

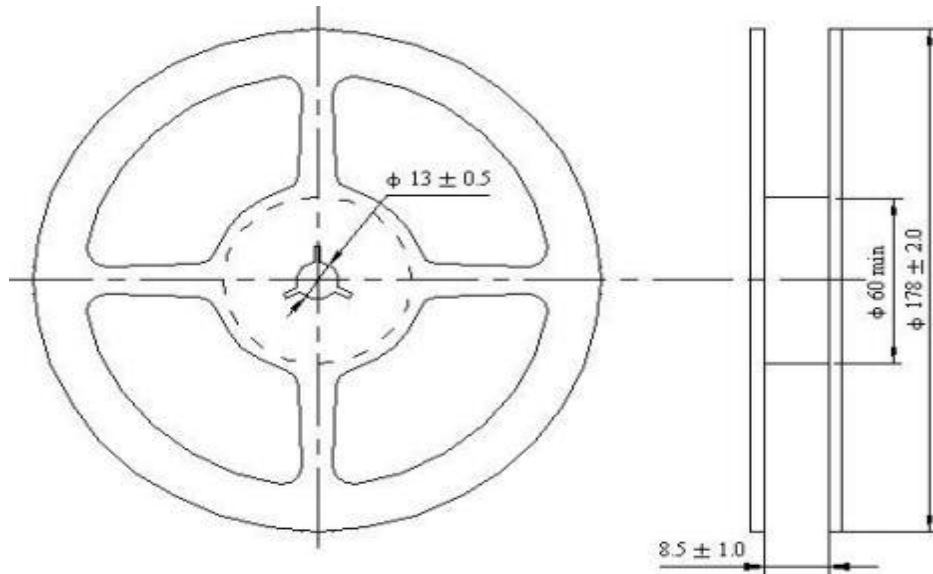
Plastic Tape



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 .

10.2 Reel (3000 pcs /Reel)



Storage Period

Product should be used within six months of receipt.

MSL 1 / Storage Temperature Range : -40~ 105 degree C , Humidity : <85%RH

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