Features

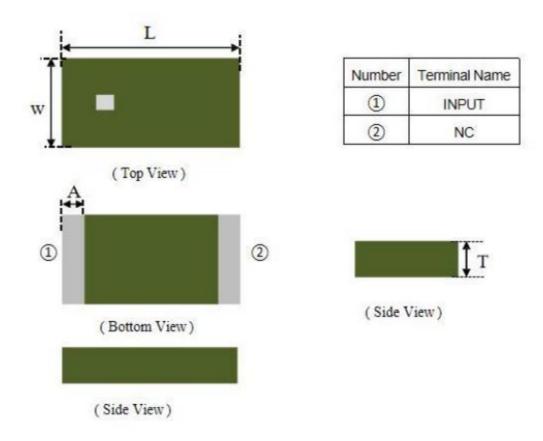
1.Surface Mounted Devices with a small dimension of 3.6 x 1.6 x 0.6 mm³meet future miniaturization trend.

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. Bluetoot h
- 2. Wireless LAN
- 3. ISMband 2.4GHz wireless applications

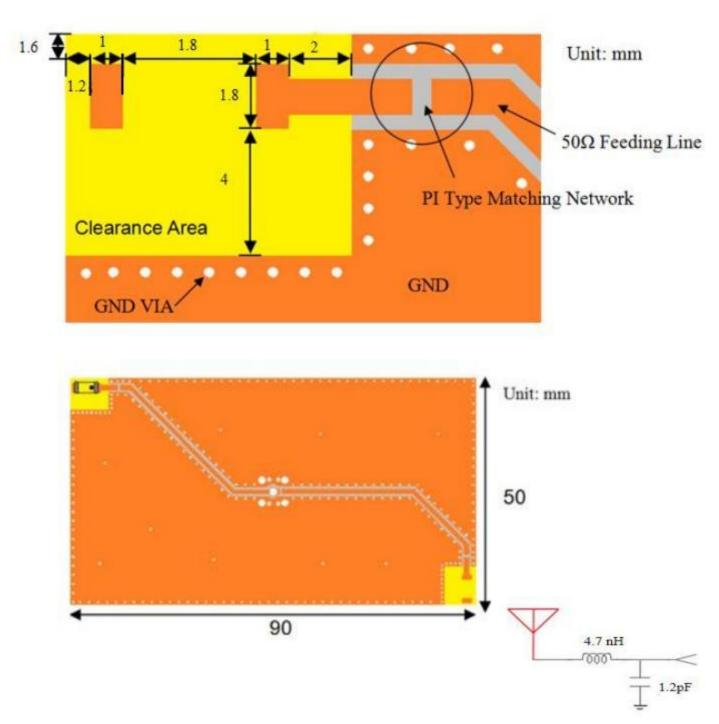


Symbols	L	W	Т	А
Dimensions	3.2+/-0.2	1.6+/-0.2	0.6+/-0.1	0.5+/-0.1

Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

HELixの自立讯)

Shenzhen Heli xun Technology Co., LTD TEL: 0755-23591525, FAX: 0755-23591525



Evaluation Board and Matching Circuits

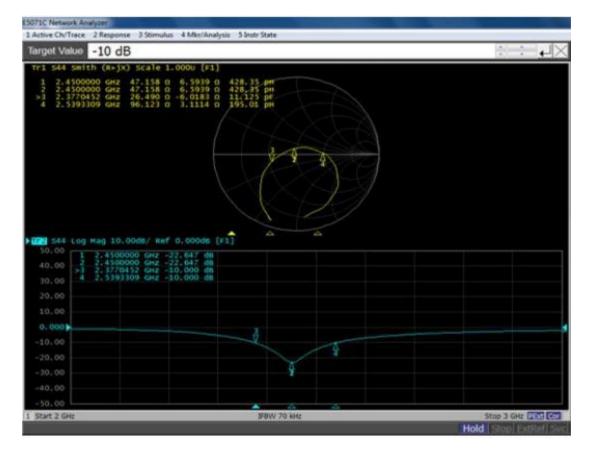
Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

HELIXOADDIN Shenzhen Heli xun Technology Co., LTD TEL : 0755-23591525, FAX : 0755-23591525

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

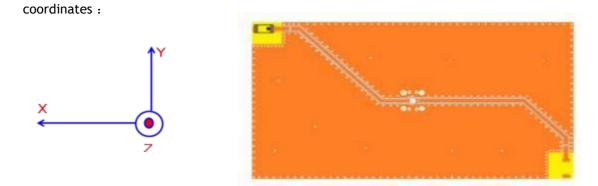


Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street,

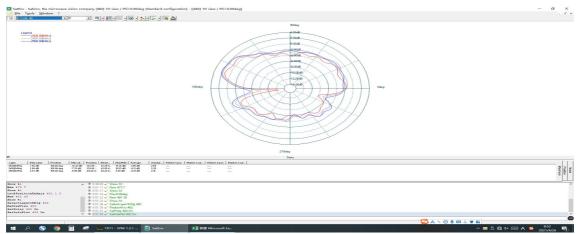
Baoan District, Shenzhen City, Guangdong Province

HELIXOBDD Shenzhen Heli xun Technology Co., LTD TEL : 0755-23591525, FAX : 0755-23591525

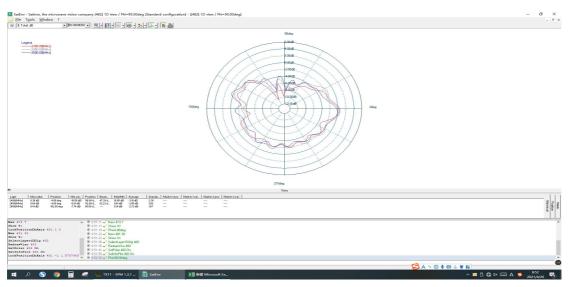
Radiation Pat tern



X-Z Plane



X-Y Plane

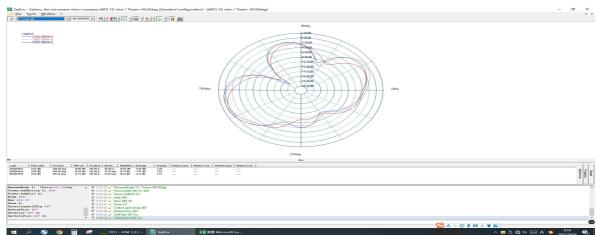


Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

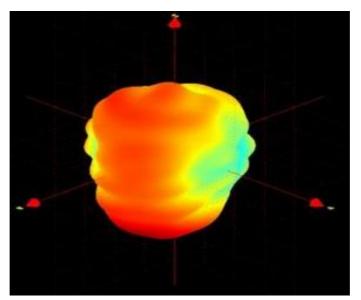
HELIX Shenzhen Heli xun Technology Co., LTD TEL : 0755-23591525, FAX : 0755-23591525

P/N: HLX321606A01

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

Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

HELIXOBOR Shenzhen Heli xun Technology Co., LTD TEL : 0755-23591525, FAX : 0755-23591525

Dependability Test

Temperature ran ge	25±5°C
Relative Humidity range	55~75%RH
Operating Temperature	-40°C~+85°C
range Storage Temperatu re	-40°C~+85°C
range Vibration Resist	

The device should fulfill the electrical spec ification 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.

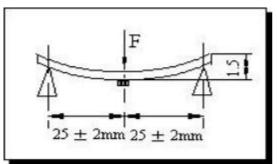
Solder Heat Proof

The device should be satisfied after preheating at $120^{\circ}C \sim 150^{\circ}C$ for 120 seconds and dipping in soldering Sn at $255^{\circ}C+10^{\circ}C$ for 5 ± 0.5 seconds , or electric iron $300^{\circ}C-10^{\circ}C$ for 3 ± 0.5 seconds , without damnify.

Adhesive Stren gth of Termination

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

Bending Resist Test



Weld the product to the center part of the PCB with the thickness 1.6 ± 0.2 mm as the illustration shows, and keep exerting force arrow-ward on it at speed of :1 mm/S, and hold for $5\pm1S$ at the position of 1.5 mm bending distance, so far, any peeling off of the product metal coating should not be detected.

Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

HELIXOPATRO Shenzhen Heli xun Technology Co., LTD TEL : 0755-23591525, FAX : 0755-23591525

Moisture Proo f

The device should fulfill the electrical specification after exposed to the temperature 60 ± 2 °Cand 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 $85\pm5^{\circ}$ Cfor 96 ± 2 hours and $1\sim2$ hours recovery time under normal temperature.

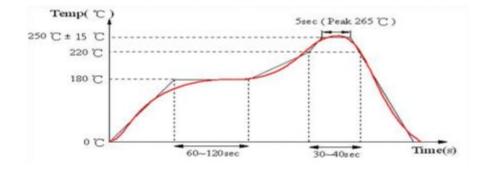
Low Temperature Endurance

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

Temperatu re Cycle Test

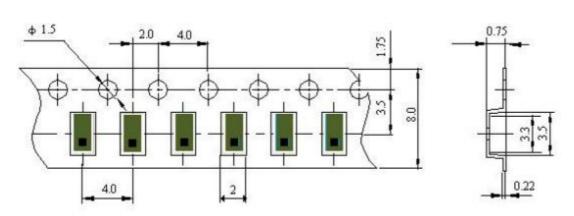
The device should fulfill the electrical specification after exposed to the low temperature -40° C and high temperature $+85^{\circ}$ C for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

Reflow Soldering Standard Condition



Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

FELix Shenzhen Heli xun Technology Co., LTD TEL : 0755-23591525, FAX : 0755-23591525



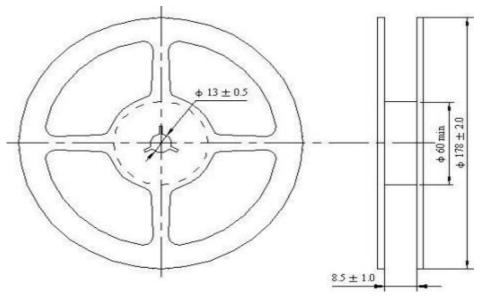
Packaging and Dimensions (3216)

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 \sim 105 degree C , Humidity : ${<}85\% RH$

Room 1004, JinHuanyu Building, No.56, Tiezai Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

HELIXOBID Shenzhen Heli xun Technology Co., LTD

TEL: 0755-23591525, FAX: 0755-23591525