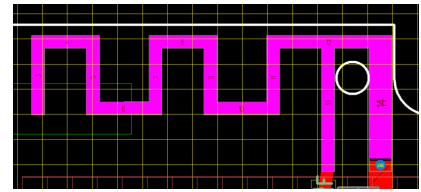


2.4GHz Chip Antenna: 1450

Application:

WLAN, 802.11b/g, Bluetooth, etc...



Part number

YLL 5012 H1 R 2G45
(1) (2) (3) (4) (5)

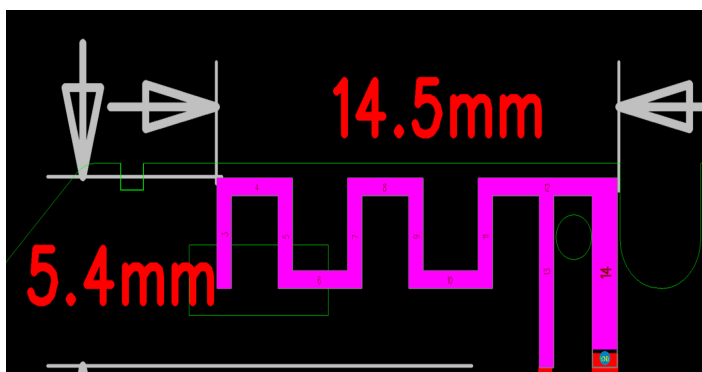
(1)Product Type	Chip Antenna
(2) Size Code	5.4x14.5mm
(3) Packing	Tape and reel
(4) Frequency	2.45GHz

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Peak Gain	3.78 dBi (Typ.)
Impedance	50 Ohm
Return loss	10 dB (Min)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40 ~85°C

The specification is defined on EVB.

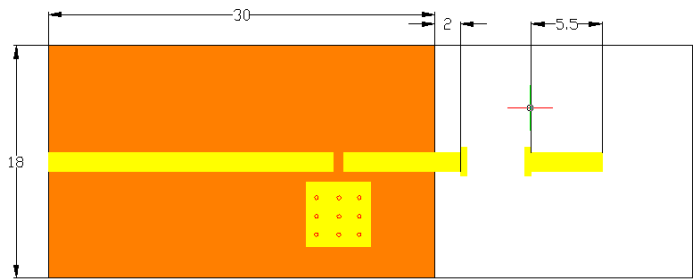
Dimension and Terminal Configuration



2.4GHz 2.45HHz Chip Antenna:1450

Evaluation Board Reference

PCB Dimension & Antenna Layout Reference

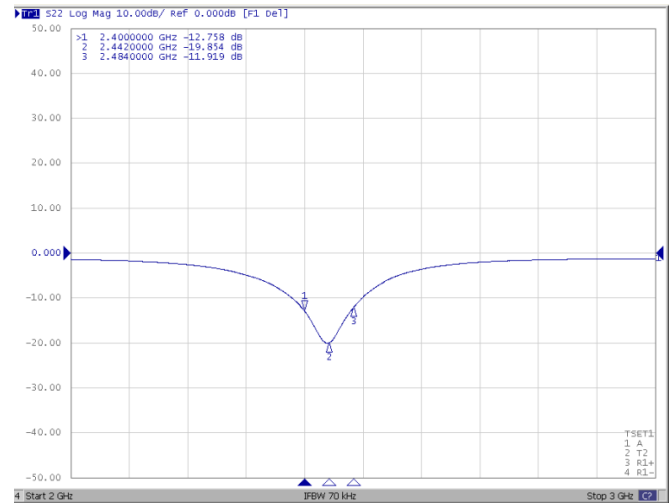


unit :mm

Electrical Characteristics

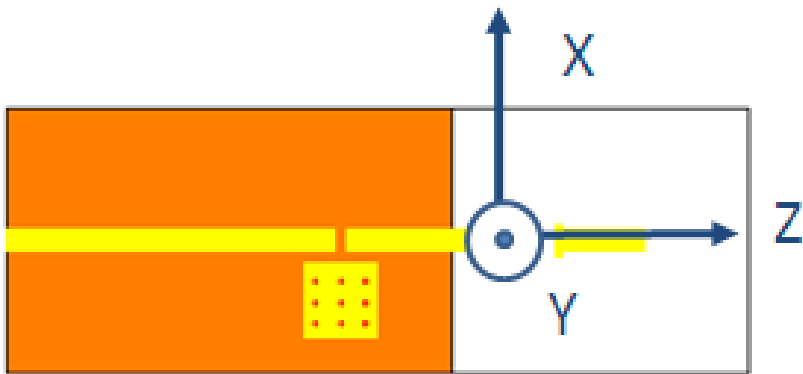
Return Loss & Radiation

Return Loss



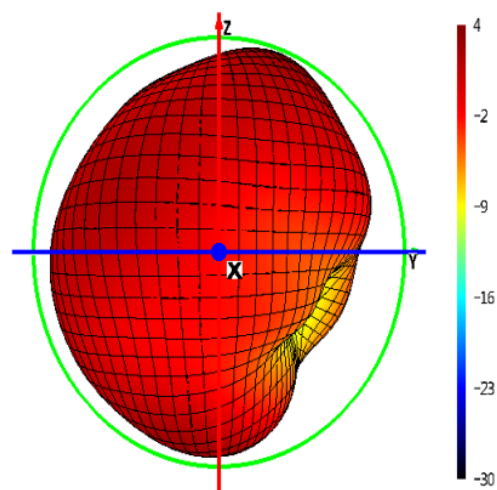
Frequency (MHz)	S11 (dB)
2400	-12.8
2442	-19.8
2484	-11.9

Radiation



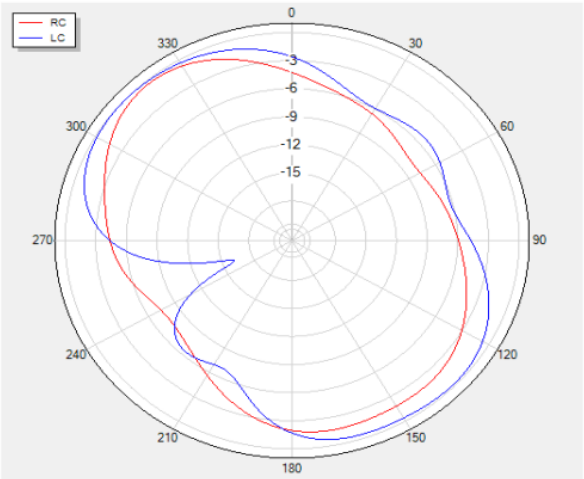
2.4GHz Chip Antenna: YL5012H1R2G45

3D&2D Radiation Drawing

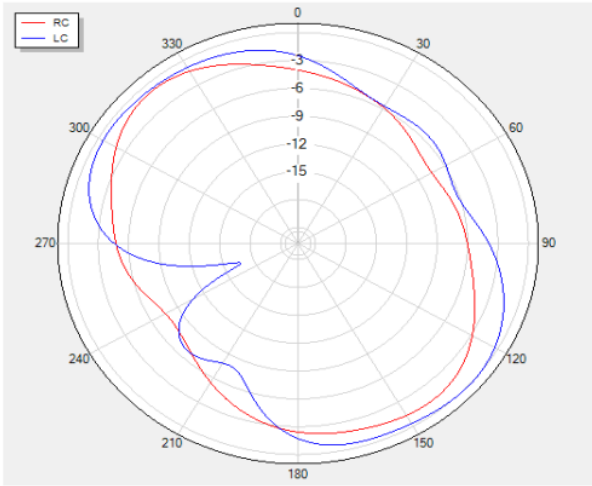


Gain&Efficiency 增益、效率			
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	3.49	-1.51	69
2410	3.03	-1.73	64.5
2420	3.7	-1.39	71.43
2430	3.64	-1.53	68.52
2440	3	-1.63	66.56
2450	3.51	-1.45	70.09
2460	3.56	-1.54	68.21
2470	3.33	-1.46	69.93
2480	3.78	-1.26	64.09
2490	3.21	-1.69	65.36
2500	3.52	-1.74	62.44

Theta=90 freq=2400MHz



Theta=90 freq=2450MHz



Theta=90 freq=2480MHz

