WLAN5380

Multilayer Chip Antenna for 2.4GHz Wireless Communication

WLAN5380
Multilayer Chip Antenna

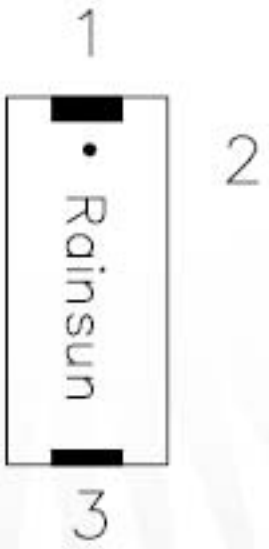
◆ Features
- Miniaturized size 8.0(L)x3.5(W)x1.0(H)
- Light weight and low profile
- Omni-directional in azimuth

◆Applications
- 2.4GHz wireless communications
- Modules
- Bluetooth
- 802.11b
- Other 2.4GHz Wireless Application

Specifications

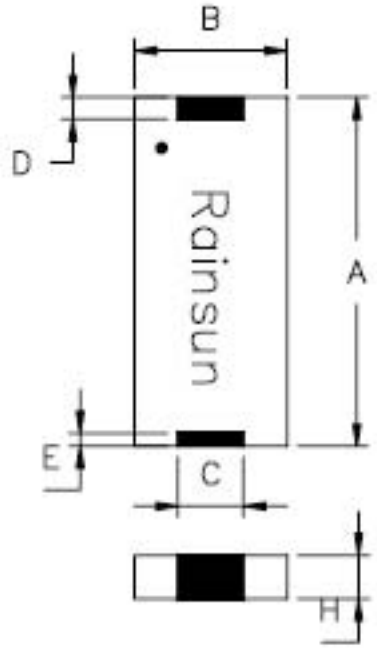
Center frequency	2.45GHz
Peak gain	1dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +85 °C
VSWR	2.0 (Max)
Input Impedance	50 Ohm
Power handling	3W (Max)
Bandwidth	180MHz
Azimuth beamwidth	Omni-directional
Polarization	Linear

Pin configuration



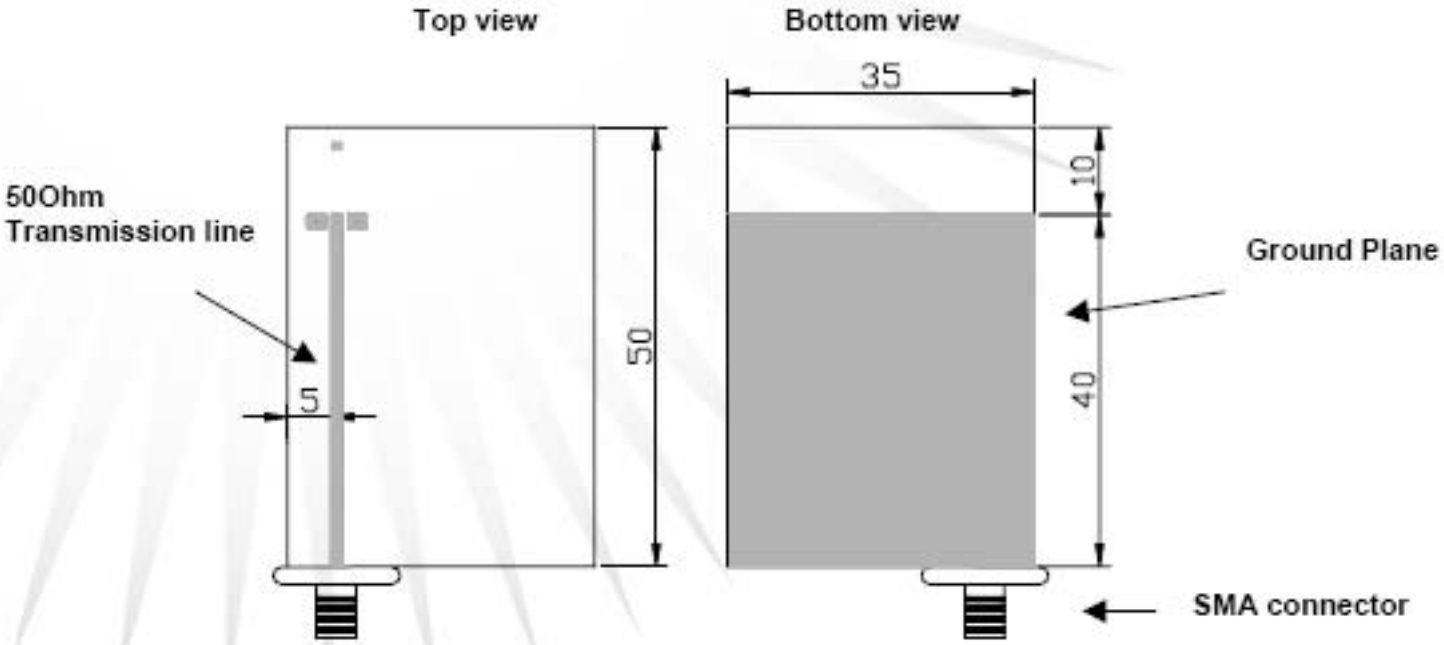
Pin No	Pin assignment
1	Feed termination
2	Feed point mark
3	Solder termination

Dimensions



symbol	Dimensions(mm)
A	8.0±0.1
B	3.5±0.1
C	1.5±0.02
D	0.5±0.02
E	0.3±0.02
H	1.0 ±0.1

Recommend Test Board Pattern



Unit:mm

Board thickness 0.6mm
Board material:FR4

Testing Block

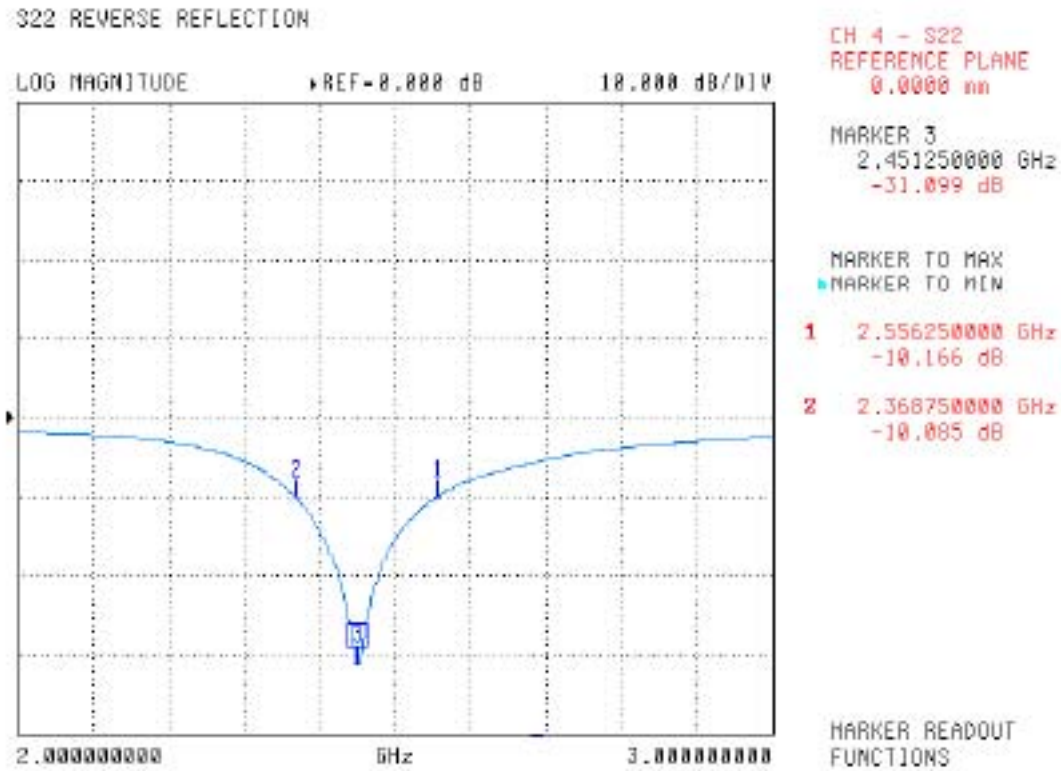
Measurement

Testing Instrument: Anritsu 37369C VNA(Vector Network Analyzer)

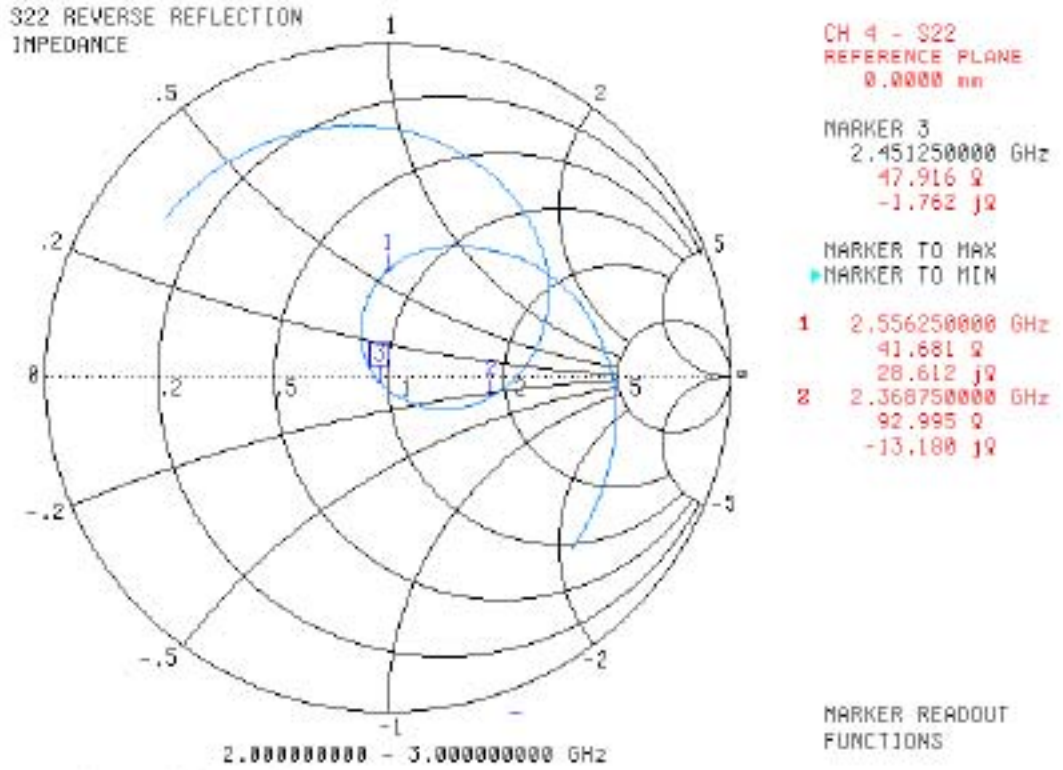
VNA calibrate with 1 path reflection only calibration sequence on test board feed point. The test board layout as recommend dimension.

Measured Antenna patterns

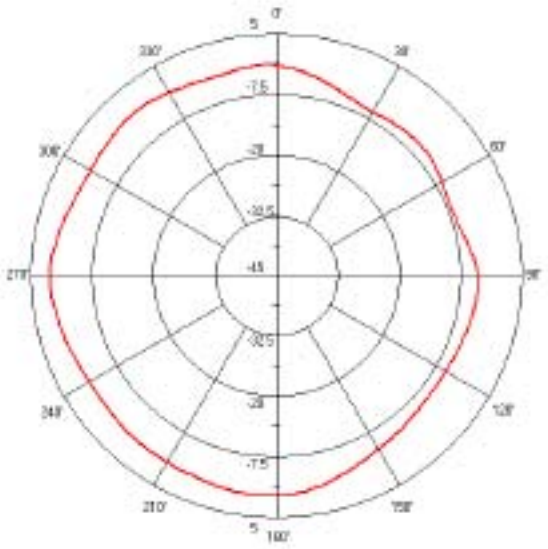
Return loss



Smith Chart



2.45 GHz H-Plane



2.45 GHz E-Plane