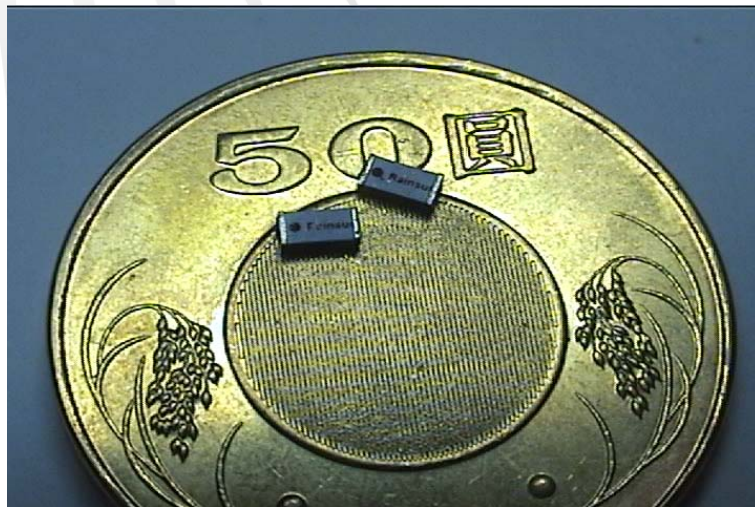


AN3216

**Multilayer Chip Antenna for 2.4GHz
Wireless Communication**



AN3216 Multilayer Chip Antenna

◆ Features

- Miniaturized size 3.2(L)X1.6(W)X0.9(H)
- Light weight and low profile
- Omni-directional in azimuth

◆ Applications

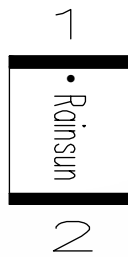
- 2.4GHz wireless communications
- 2.4GHz Transmit or Receive Modules
- Bluetooth
- 802.11b or 802.11g
- Other 2.4GHz Wireless Application



Specifications

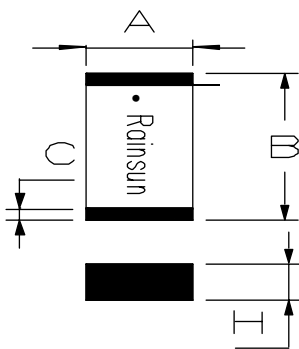
Center frequency	2.45GHz
Peak gain	0.5dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +85 °C
VSWR	2.0 (Max)
Input Impedance	50 Ohm
Power handling	3W (Max)
Bandwidth	110MHz
Azimuth beamwidth	Omni-directional
Polarization	Linear

Pin configuration



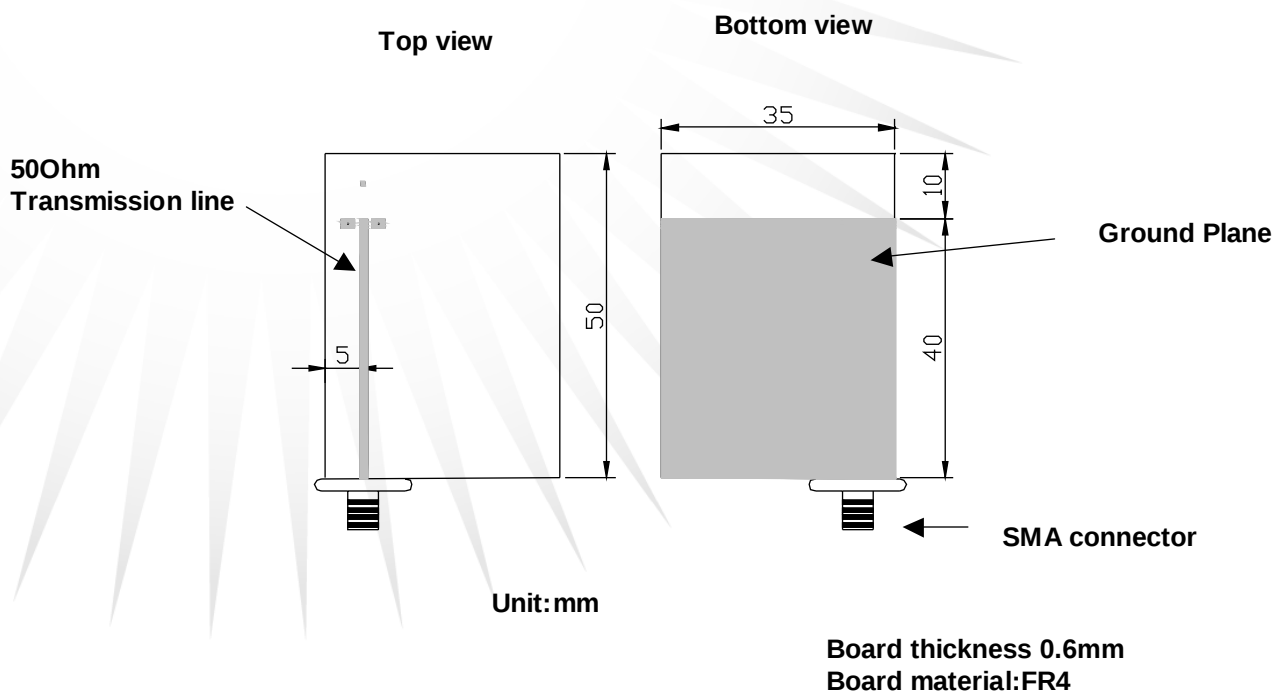
Pin No	Pin assignment
1	Feed termination
2	Solder termination

Dimensions

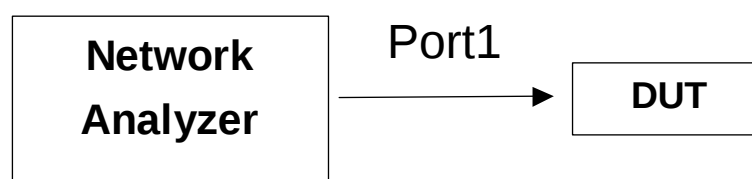


symbol	Dimensions(mm)
A	1.6±0.1
B	3.2±0.1
C	0.3±0.02
H	0.9±0.1

Recommend Test Board Pattern

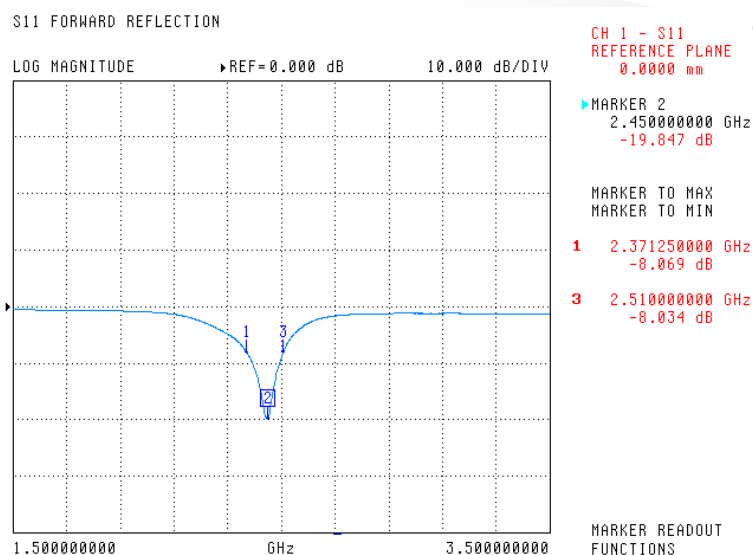


Testing Block

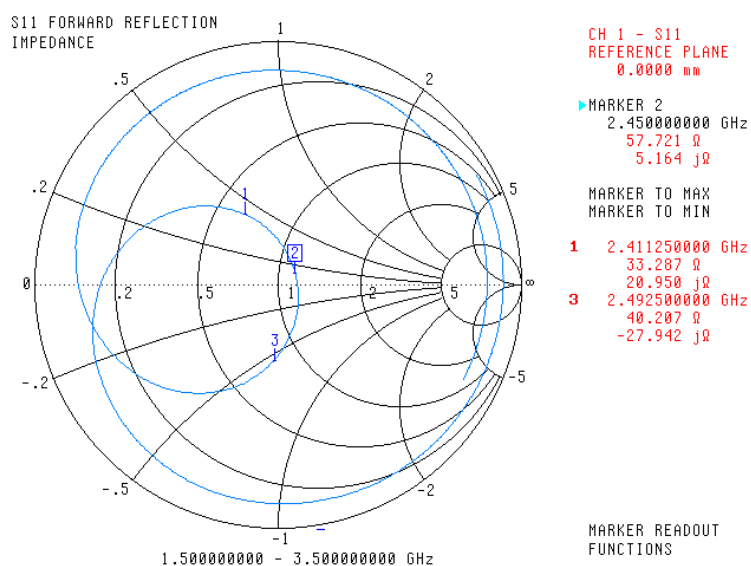


Measured Antenna patterns

Return loss

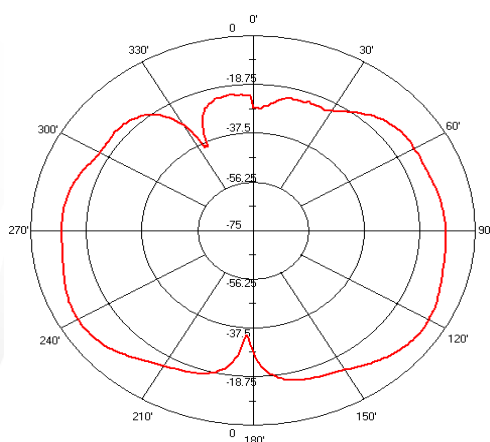


Smith Chart

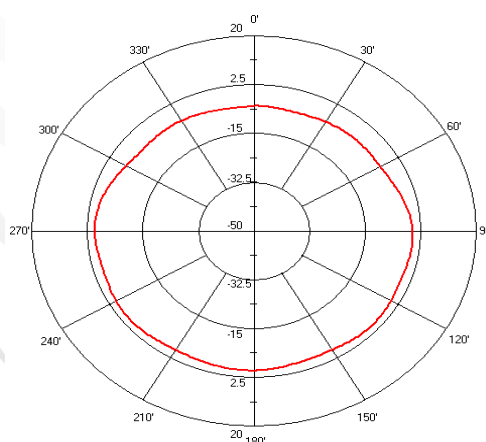


Radiation Pattern Scanning

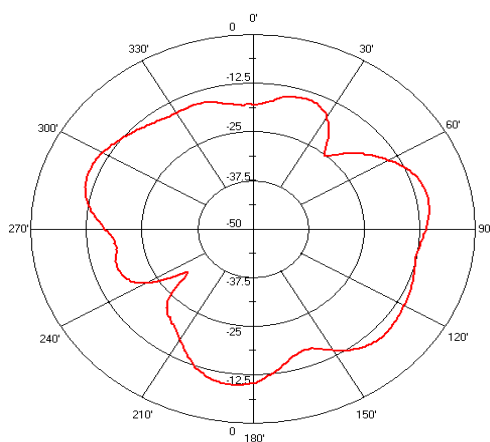
**2.45 GHz H-Plane
vertical**



**2.45 GHz H-Plane
horizontal**



**2.45 GHz E-Plane
vertical**



**2.45 GHz E-Plane
horizontal**

