WLAN0259

Multilayer Chip Antenna for 2.4GHz Wireless Communication

WLAN0259 Multilayer Chip Antenna

Features

- Miniaturized size 9.5(L)x2.0(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

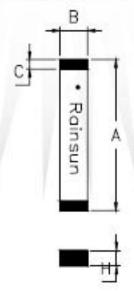
Center frequency	2.45GHZ	
Peak gain	1.5dBi	
Operation temperature	-40 ~ +85 °C	
Storage temperature	-40 ~ +85 °C	
VSWR	2.0 (Max)	
Input Impedance	50 Ohm	
Power handling	3W (Max)	
Bandwidth	200MHz	
Azimuth beamwidth	Omni-directional	
Polarization	Linear	

Pin configuration



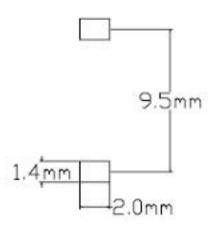
Pin No	Pin assignment	
1	Feed termination	
2	Feed point mark	
3	Solder termination	

Dimensions

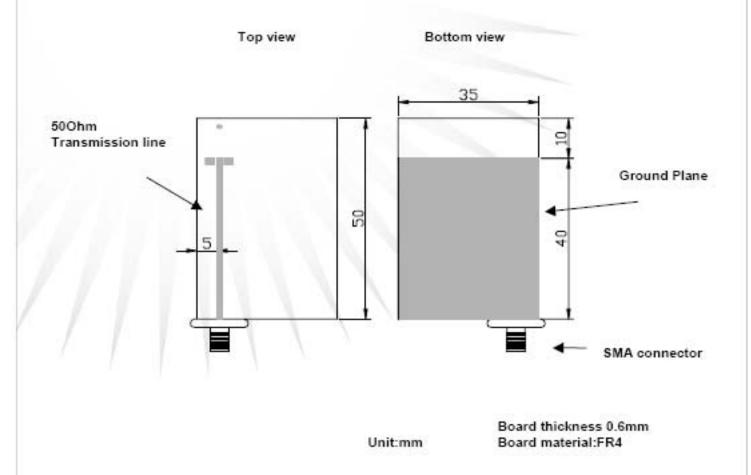


symbol	Dimensions(mm)
A	9.5±0.1
В	2.0±0.1
С	0.5 ±0.1
Н	1.0±0.2

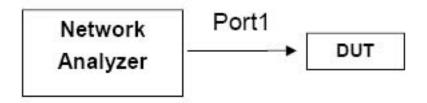
PCB foot printer



Recommend Test Board Pattern



Testing Block



Measurement

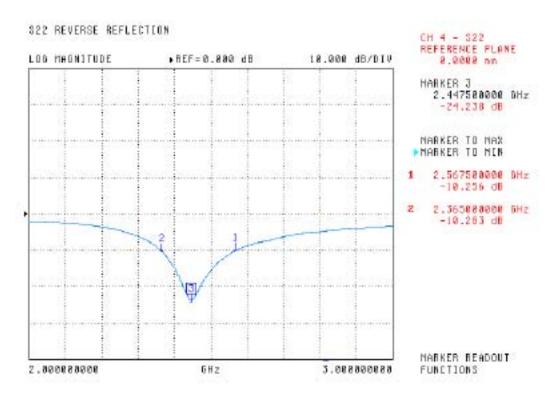


Testing Instrument: Anritsu 37369C VNA(Vector Network Analyzer)

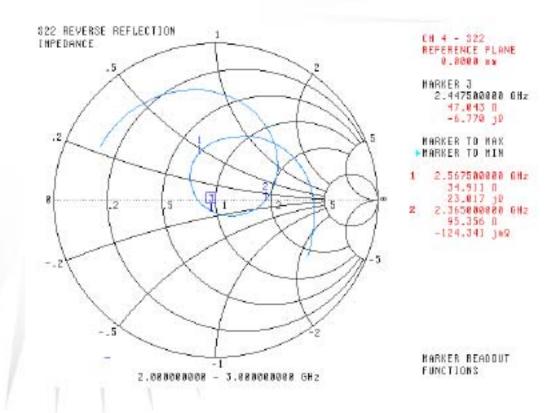
VNA calibrate with 1 path reflection only calibration sequence on test board feed point. The test board layout as recommend dimension.

Measured Antenna patterns

Return loss

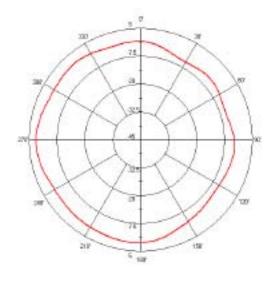


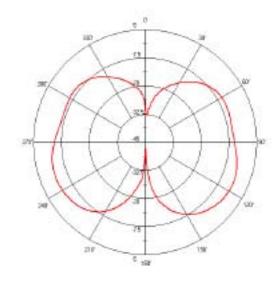
Smith Chart



2.45 GHz H-Plane

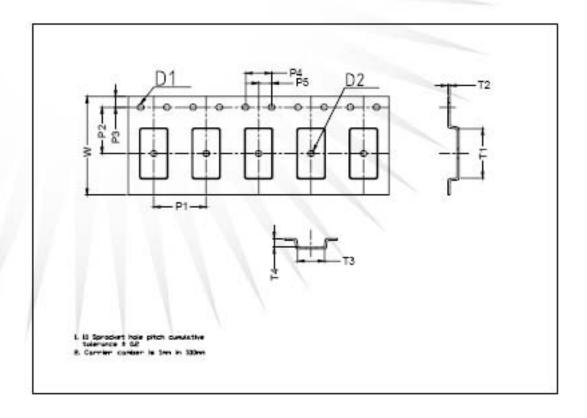
2.45 GHz E-Plane





Packing

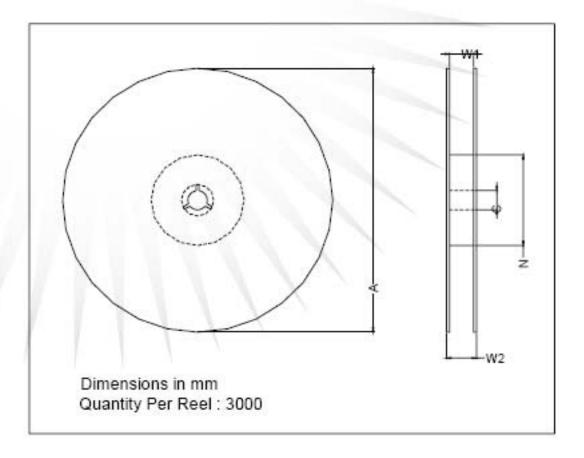
Blister Tape



Symbol	W	P1	P2	P3	P4	P5
Dimension	1.6±0.3	8.0±0.1	7.5±0.1	1.75±0.1	4.0±0.1	2.0±0.1
Symbol	Dl	D2	T1	T2	Т3	T4
Dimension	1.5±0.1	1.5±0.1	10.0±0.1	0.3±0.05	2.5±0.1	1.5±0.1

Dimensions in mm

Reel



20.8±0.2

Dimensions in mm