

PF-1004-245

Chip Antenna for Wireless Application (Preliminary Information)



PF-1004-245 Chip Antenna

◆ Features

- Size : 10mm(L)X4mm(W)X3mm(H)
- Light weight and low profile
- Linear Polarization
- Lead (Pb) Free

◆ Applications

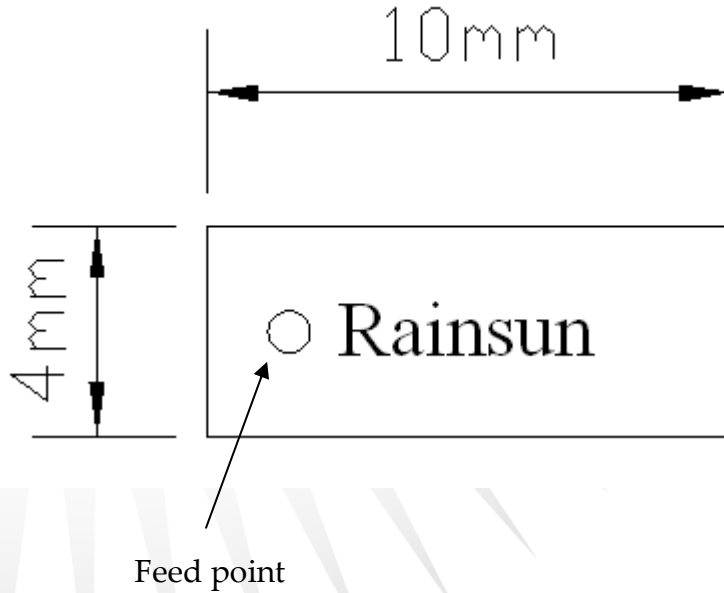
- 2.4 GHz Wireless communication
- WLAN device, WLAN Router
- Netbook

Specifications

Frequency range	2350 ~ 2500 GHz
Band width	150MHz
Peak gain	3 dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +100 °C
VSWR	2 (Max)
Input Impedance	50 Ohm
Power handling	5W (Max)
Polarization	Linear
Soldering pad	Natural tin

Dimension and pin configuration

Top view

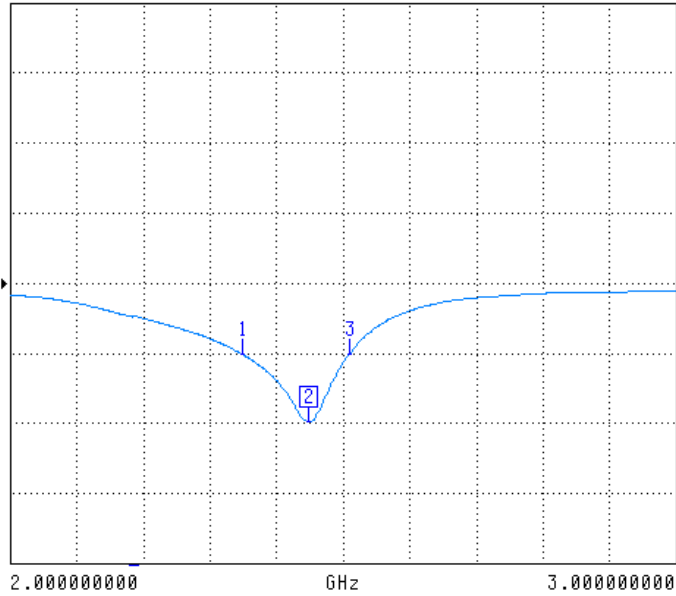


Typical Electrical Characteristics

Return loss

S11 FORWARD REFLECTION

LOG MAGNITUDE REF=0.000 dB 10.000 dB/DIV



CH 1 - S11
REFERENCE PLANE
0.0000 mm

MARKER 2
2.450000000 GHz
-19.873 dB

MARKER TO MAX
▶ MARKER TO MIN

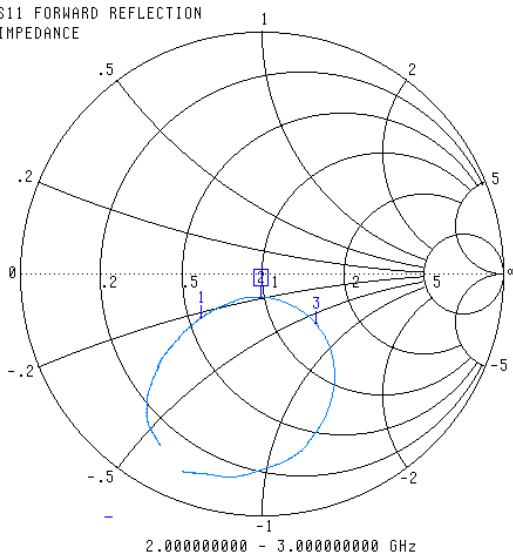
1 2.350000000 GHz
-10.219 dB

3 2.509375000 GHz
-10.247 dB

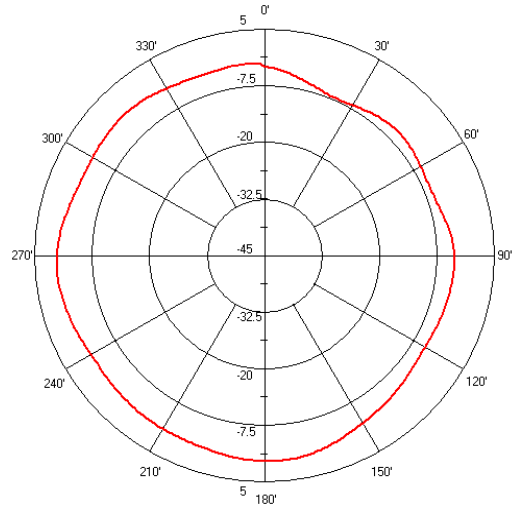
MARKER READOUT
FUNCTIONS

Smith Chart

S11 FORWARD REFLECTION
IMPEDANCE

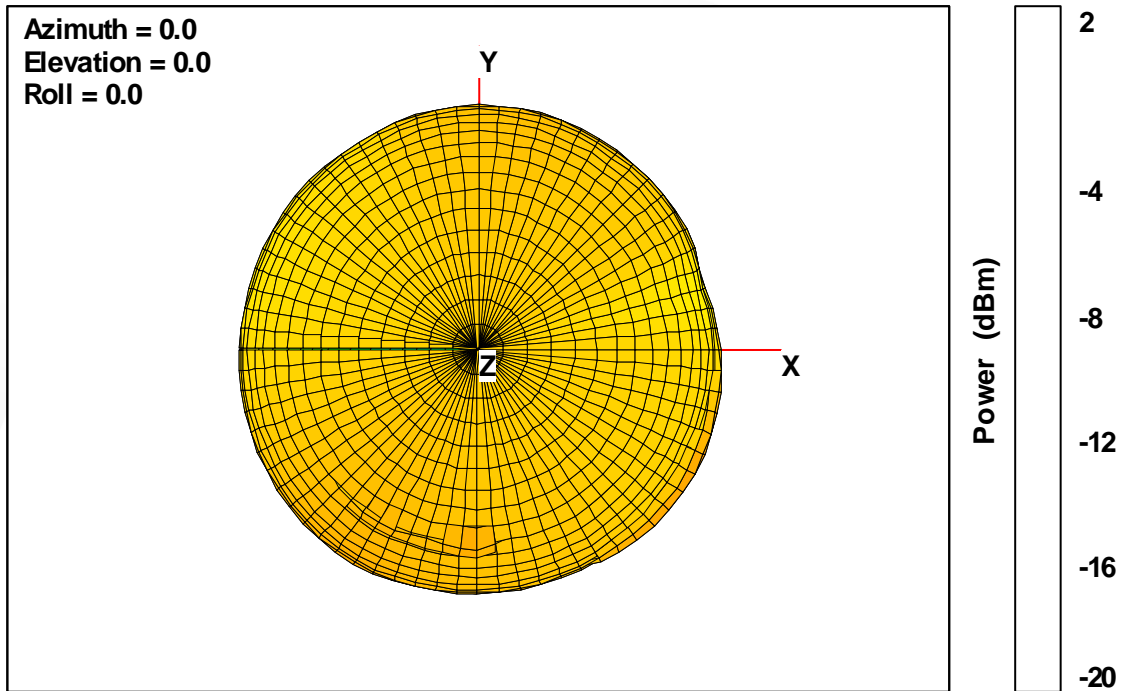


Radiation plane



3D Test

Total Top View



Plot 3 TRP, Top View, 2450 MHz