

PF1004

Chip Antenna for Wireless Application

(Preliminary Information)



PF1004 Chip Antenna

♦ Features

- Size : 10mm(L)X4mm(W)X3.0mm(H)
- Light weight and low profile
- Linear Polarization
- Lead (Pb) Free

◆Applications

- 2.4 GHz & 5~6GHz Wireless communication
- 802.11a/b/g/n WLAN device, WLAN Router
- Netbook

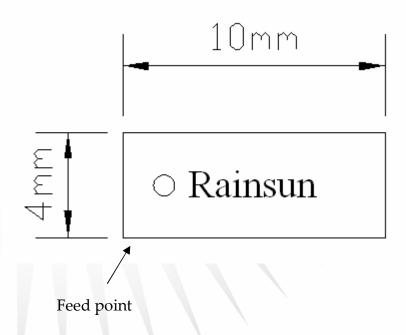
Specifications

Frequency range	2.45G & 5~6GHz
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

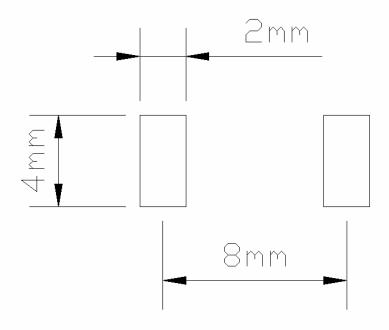


Dimension

Top view



PCB Foot printer

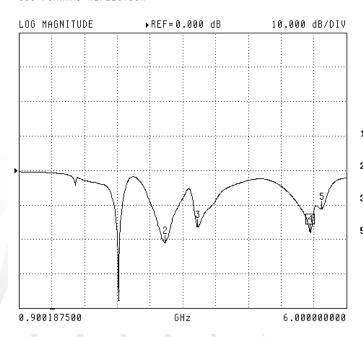




Typical Electrical Characteristics

Return loss





CH 1 - S11 REFERENCE PLANE 0.0000 mm

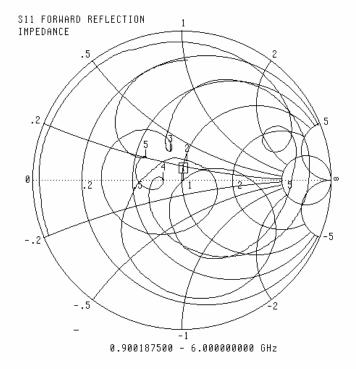
MARKER 4 5.432125000 GHz -17.781 dB

MARKER TO MAX ▶MARKER TO MIN

- 2.452625000 GHz -37.749 dB
- 3.179062500 GHz -21.002 dB
- 3.684250000 GHz -16.357 dB
- 5.609125000 GHz -11.181 dB

MARKER READOUT FUNCTIONS

Smith Chart



- CH 1 S11 REFERENCE PLANE 0.0000 mm
- MARKER 1 2.452625000 GHz 51.607 Ω -465.298 jmΩ
- MARKER TO MAX ▶MARKER TO MIN
- **2** 3.190125000 GHz 52.250 Ω 13.648 jΩ
- **3** 3.699000000 GHz 40.373 Ω
- 16.051 jΩ **4** 5.424750000 GHz 39.131 0
- 39.131 Ω 168.208 jmΩ 5 5.594375000 GHz 29.522 Ω 9.744 jΩ

MARKER READOUT FUNCTIONS