

PF1004

Chip Antenna for Wireless Application



PF1004 Chip Antenna

◆ Features

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

◆ Applications

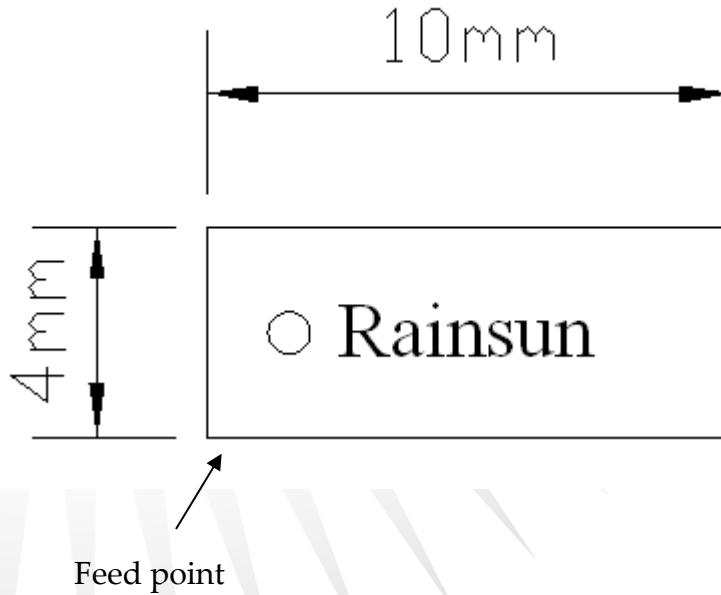
- 2.4 GHz & 5~6GHz Wireless communication
- 802.11a/b/g/n WLAN device, WLAN Router
- Netbook

Specifications

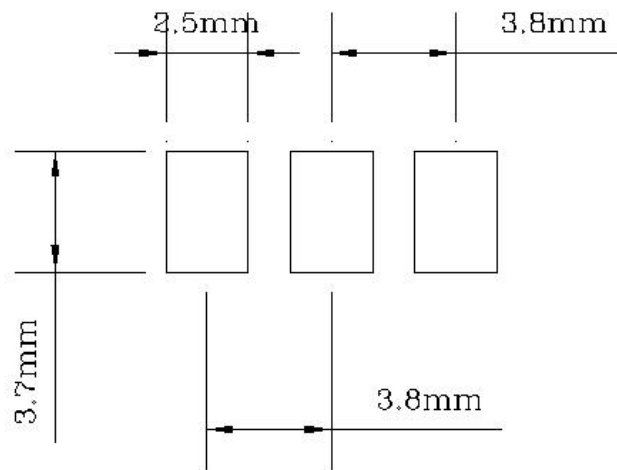
Frequency range	2.45G & 5~6GHz
Peak gain	3 dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +100 °C
VSWR	2 (Max)
Input Impedance	50 Ohm
Power handling	5W (Max)
Polarization	Linear
Soldering pad	Natural tin

Dimension

Top view



PCB Foot printer

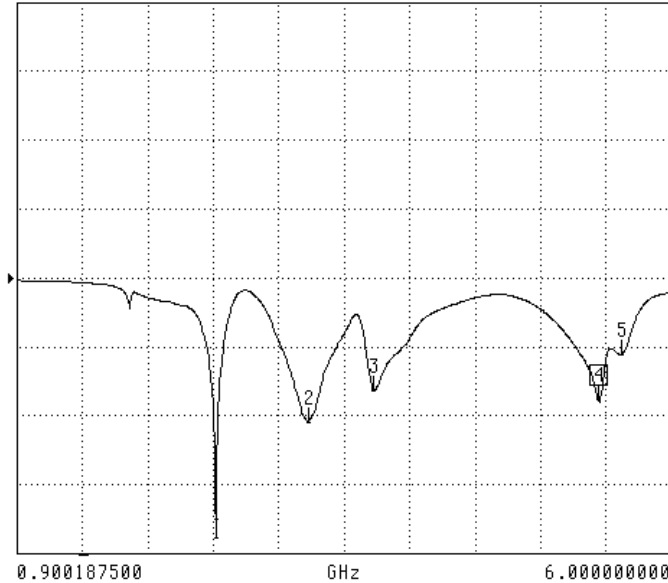


Typical Electrical Characteristics

Return loss

S11 FORWARD REFLECTION

LOG MAGNITUDE REF=0.000 dB 10.000 dB/DIV



CH 1 - S11
 REFERENCE PLANE
 0.0000 mm

MARKER 4
 5.432125000 GHz
 -17.781 dB

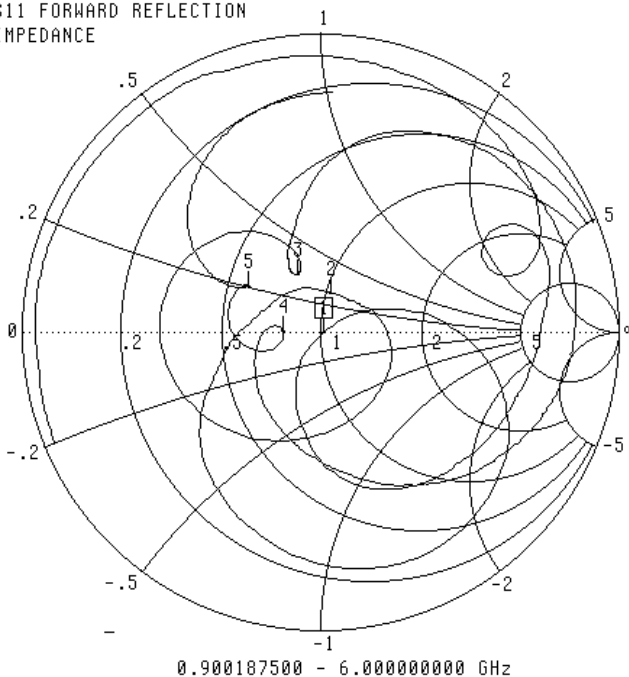
MARKER TO MAX
 MARKER TO MIN

- 1 2.452625000 GHz
-37.749 dB
- 2 3.179062500 GHz
-21.002 dB
- 3 3.684250000 GHz
-16.357 dB
- 5 5.609125000 GHz
-11.181 dB

MARKER READOUT
 FUNCTIONS

Smith Chart

S11 FORWARD REFLECTION
 IMPEDANCE



CH 1 - S11
 REFERENCE PLANE
 0.0000 mm

MARKER 1
 2.452625000 GHz
 51.607 Ω
 -465.298 j mΩ

MARKER TO MAX
 MARKER TO MIN

- 2 3.190125000 GHz
52.250 Ω
13.648 j Ω
- 3 3.699000000 GHz
40.373 Ω
16.051 j Ω
- 4 5.424750000 GHz
39.131 Ω
168.208 j mΩ
- 5 5.594375000 GHz
29.522 Ω
9.744 j Ω

MARKER READOUT
 FUNCTIONS