

AN703020

Multilayer Chip Antenna for 2.4G/ 5~6GHz Wireless Communication

AN703020 Multilayer Chip Antenna

◆ Features

- Light weight and low profile 7.0mm(L)X 3.0mm(W)X2.0mm(H)
- Omni-directional in azimuth
- Lead (Pb) Free

◆ Applications

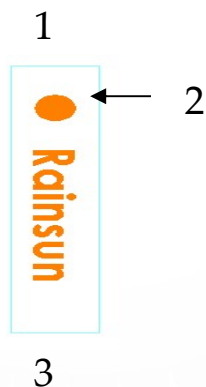
- 2.4G/ 5~6GHz wireless communications
- WiFi chip set, modules
- Bluetooth System
- 802.11a/b/g/n Wireless LAN System

Specifications

Center frequency	2.45/ 5.5GHz
Peak gain	1.0dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +85 °C
VSWR	2.0 (max)
Input Impedance	50 Ohm
Power handling	3W (max)
Bandwidth	100/1000MHz
Azimuth beamwidth	Omni-directional
Polarization	Linear

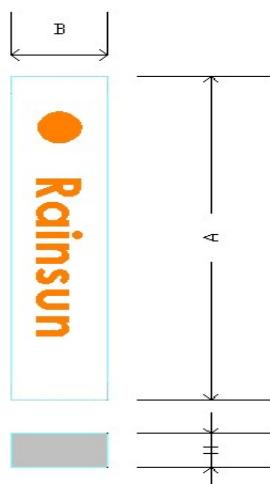
Pin configuration

Top view



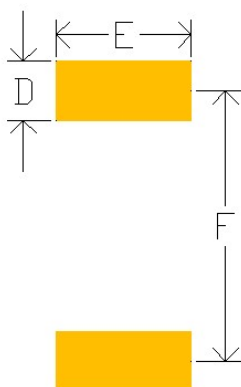
Pin No	Pin assignment
1	Feed termination
2	Feed point mark
3	Solder termination

Dimensions



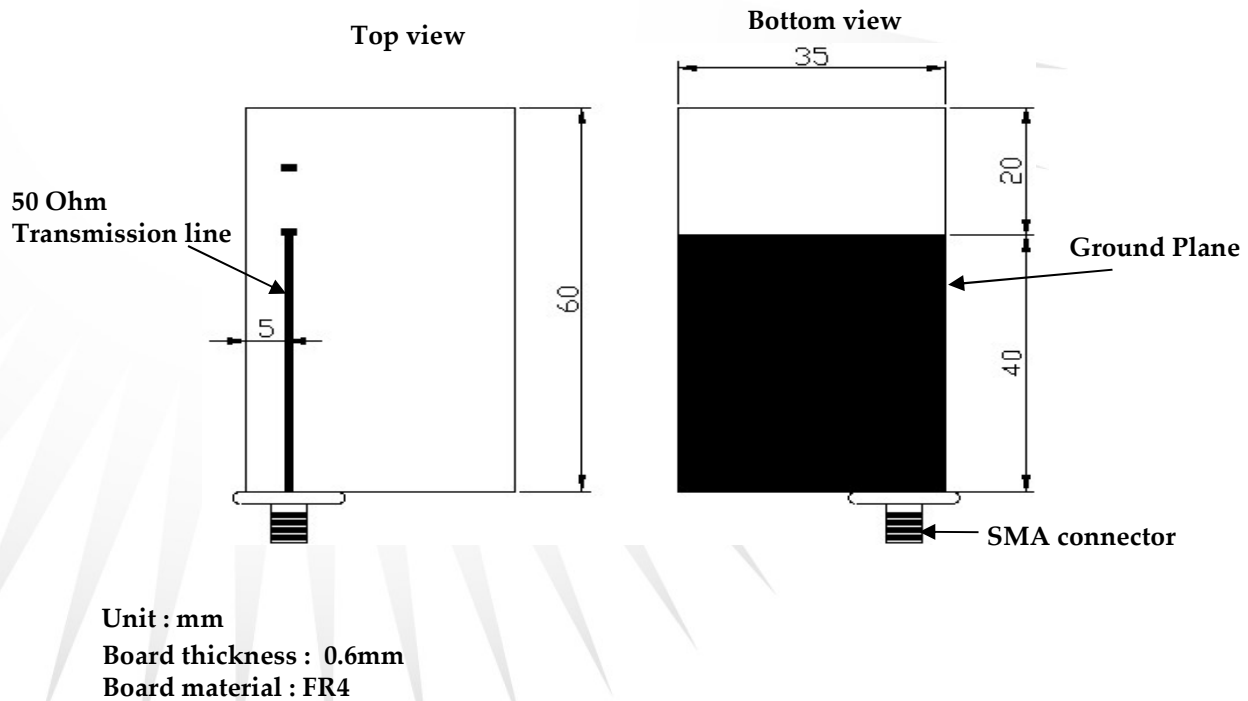
Symbol	Dimensions(mm)
A	7.0 ± 0.2
B	3.0 ± 0.2
H	2.0 ± 0.20

PCB foot printer



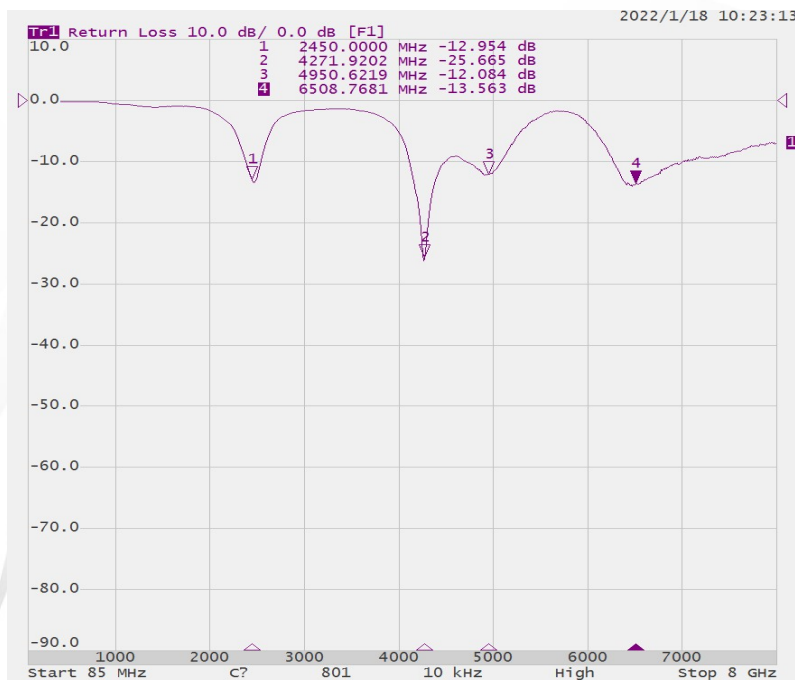
Symbol	Dimensions(mm)
D	1.2
E	3.0
F	7.0

Recommended Test Board Pattern



Typical Electrical Characteristics

Return loss



Smith Chart

