Phycomp Product specification

High Frequency

SMD type antennas for BT/802.11b/g application 2.45 GHz size 5.3×2.0

FEATURES

- Designed for 2.45 GHz ISM-band
- · Simplifies antenna circuitry
- NiSn lead-free terminations
- · Suitable for wave and reflow soldering
- · Supplied in tape on reel.

APPLICATIONS

- Telecommunications
- Computing (PCs, printers, PDAs)
- Wireless office data communications including WLAN
- Consumer electronics (wireless headphones).

DESCRIPTION

This 2.45 GHz ceramic multilayer antenna has been designed to meet the requirements of the Bluetooth $^{TM(1)}$ and IEEE 802.11b/g wireless communications protocol. It consists of a rectangular block of low-dielectric ceramic material and is fabricated in a water-based non-toxic process. The antenna is capable of providing good connectivity using near 50 Ω microstrip directly onto the PC board.

Notes

 Bluetooth is a trademark owned by Telefonieaktiebolaget L M Ericsson, Sweden.

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Centre frequency	2.45 GHz
	0 type/01type/02 type/03 type/Default/04 type/05 type
Bandwidth	>100 MHz
Gain	4 dBi max. (depends on the special environment)
VSWR	2.5 max. (depends on the special environment)
Polarization	Linear
Azimuth beam width	Omni-directional
Impedance	50 Ω
Power dissipation	1 W
Operating temperature	−55 to +85 °C
Terminations	NiSn
Resistance to soldering heat	260 °C for 10 seconds