



PRELIMINARY SPECIFICATION

October 30, 2008

Explanation of Part Number

WPANT **SMCER** **100303** **A**
 (1) (2) (3) (4)

- (1) **Product Series**
WPANT
- (2) **Product Type**
Surface Mount, PIFA Block ceramic series
- (3) **Dimensions**
100303 = 10mm x 3mm x 3mm
- (4) **Revision**
A

Application

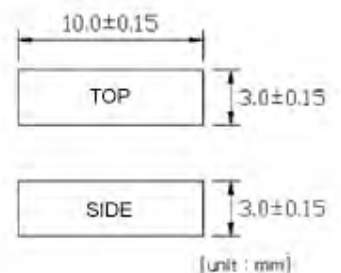
Multilayer Chip Antenna for Bluetooth™, WI-FI (802.11 a/b/g), WLAN radio functions in enterprise, hand held and industrial wireless applications.
 Please contact sales@wp-wireless.com with your specific application requirements.

Electrical Specifications

Item	Property
Frequency Range	2400-2484 / 5150-5875MHz
Nominal Impedance	50 Ω
VSWR (max.)	2.5:1
Peak Gain [Typ.]	Avg. -2.0 dBi typ.
Polarization	Linear
Radiation Pattern	Omni-directional

Mechanical Properties

Item	Property
Dimensions	10mm x 3mm x 3mm
Operating Temperature	-35 ~ +85 °C
Connector	N/A

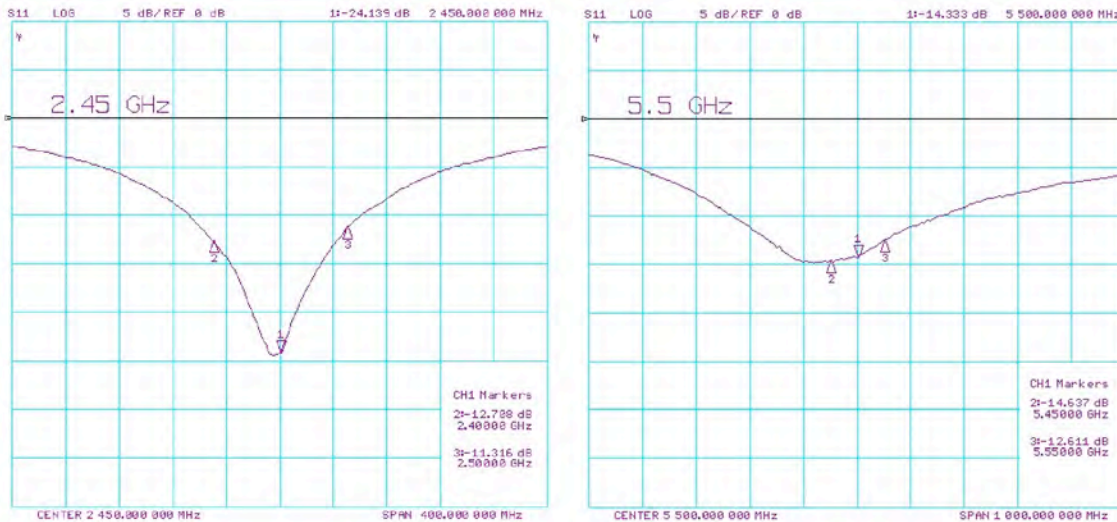




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VSWR



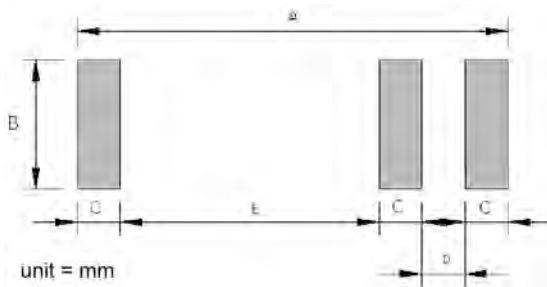
RADIATION AND GAIN TABLE

[Measured data table]

	Peak Gain (dBi)	Average Gain (dBi)	Remark
Azimuth	2.28	-2.69	@2.45 GHz
Elevation	2.44	-2.99	@2.45 GHz
Total	3.29	-0.07	@2.45 GHz

Azimuth	2.63	-4.20	@5.5 GHz
Elevation	2.70	-3.64	@5.5 GHz
Total	3.75	-1.23	@5.5 GHz

SOLDERING RECOMMENDATIONS



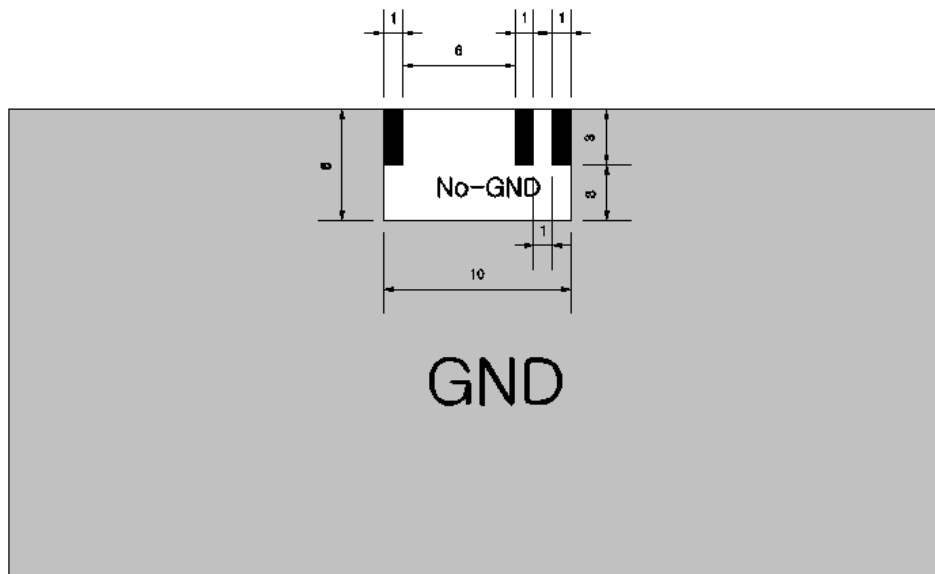
Item	Dimension [mm]
A	10.0
B	3.0
C	1.0
D	1.0
E	6.0



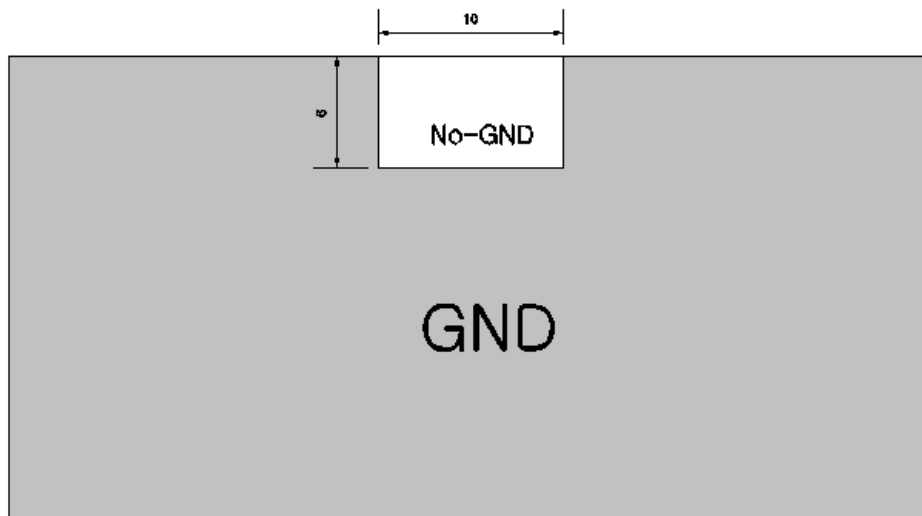
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ANTENNA LAYOUT



BOARD TOP LAYER



BOARD BOTTOM LAYER

- Note: Ground Plane size is 10.0cm x 6.0cm.