

Description: 1003 2.4G&5GHz Chip Antenna

PART NUMBER: ANT1003LL15R2455A

Features:

- Size: 10.0x3.20x1.60 mm
- Omni-directional radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- 2.4 & 5 GHz WiFi device
- · ISM band equipment

ELECTRICAL SPECIFICATIONS

Working Frequency Bandwidth Return Loss

Polarization

Azimuth Beamwidth

Peak Gain Impedance

Operating Temperature

Maximum Power

Termination

Resistance to Soldering Heats

2.4-2.484 GHz / 5.15-5.85 GHz

120 / 900 MHz(Typ.)

6.5 dB Min. Linear

Omni-directional

2.45 / 1.55 dBi (Typ.)

50 Ω

- 40~105 °C

1 W

Ag (Environmentally-Friendly Leadless)

260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and rederal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden. For more information:



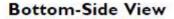
Description: 1003 2.4G&5GHz Chip Antenna

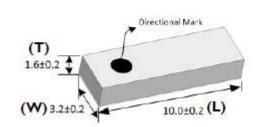
PART NUMBER: ANT1003LL15R2455A

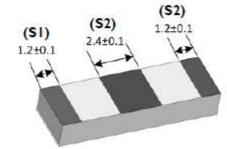
MECHANICAL DRAWING

Dimension	
L (mm)	10.00 ±0.20
W (mm)	3.20 ± 0.20
T (mm)	1.60 ± 0.20









Terminal name	Function	
S1	Feeding Point	
S2	Soldering Point	

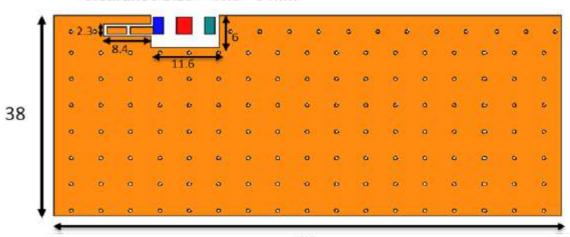


Description: 1003 2.4G&5GHz Chip Antenna

PART NUMBER: ANT1003LL15R2455A

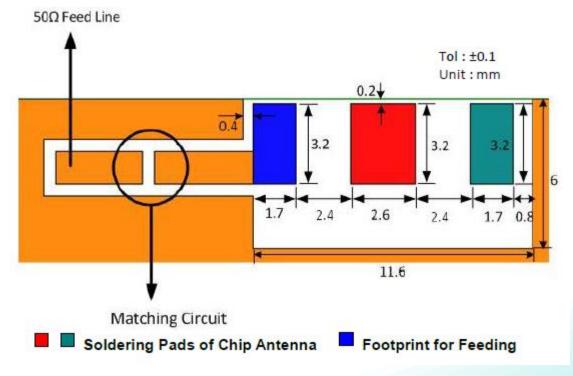
REFERENCE DESIGN OF EVALUATION BOARD

Clearance Size = 11.6 * 6 mm



88

Outlook and dimension of evaluation board



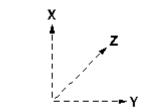
Details of soldering Pad

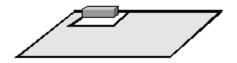


Description: 1003 2.4G&5GHz Chip Antenna

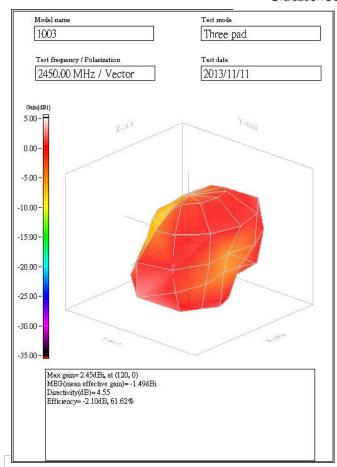
PART NUMBER: ANT1003LL15R2455A

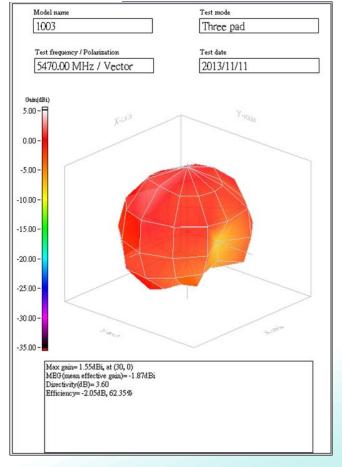
REFERENCE DESIGN OF EVALUATION BOARD





Evaluation board and XYZ direction





Radiation pattern

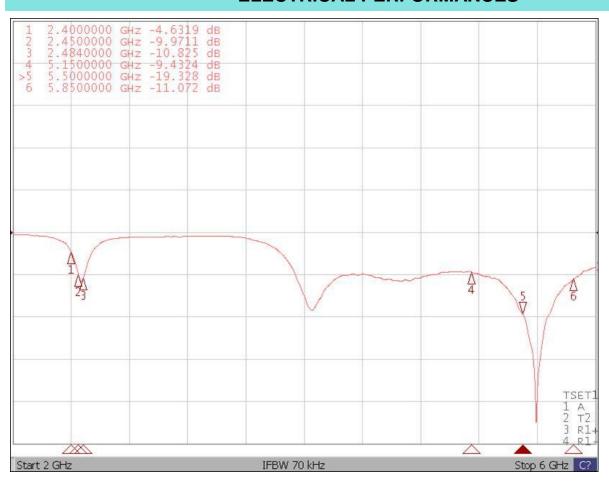
In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



Description: 1003 2.4G&5GHz Chip Antenna

PART NUMBER: ANT1003LL15R2455A

ELECTRICAL PERFORMANCES



Maker data 2.40GHz, -4.6319dB 2.45GHz, -9.9711dB 2.48GHz, -10.825dB 5.15GHz,-9.4324dB 5.50GHz,-19.328dB 5.85GHz,-11.072dB

Return loss



Description: 1003 2.4G&5GHz Chip Antenna

PART NUMBER: ANT1003LL15R2455A

RE\	/ISION	HISTOF	RY
TLL			l I

RevisionDateDescriptionVersion 1Nov. 23, 2020- New issue