

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	2.4-2.484 GHz / 5.15-5.85 GHz
Bandwidth	120 / 900 MHz(Typ.)
Return Loss	6.5 dB Min.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.45 / 1.55 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	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.

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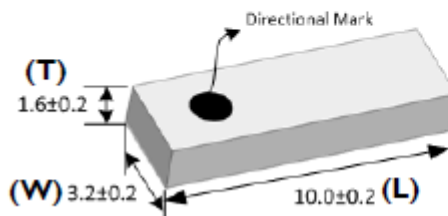
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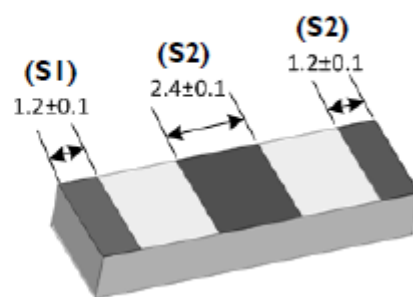
MECHANICAL DRAWING

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

Top-Side View



Bottom-Side View

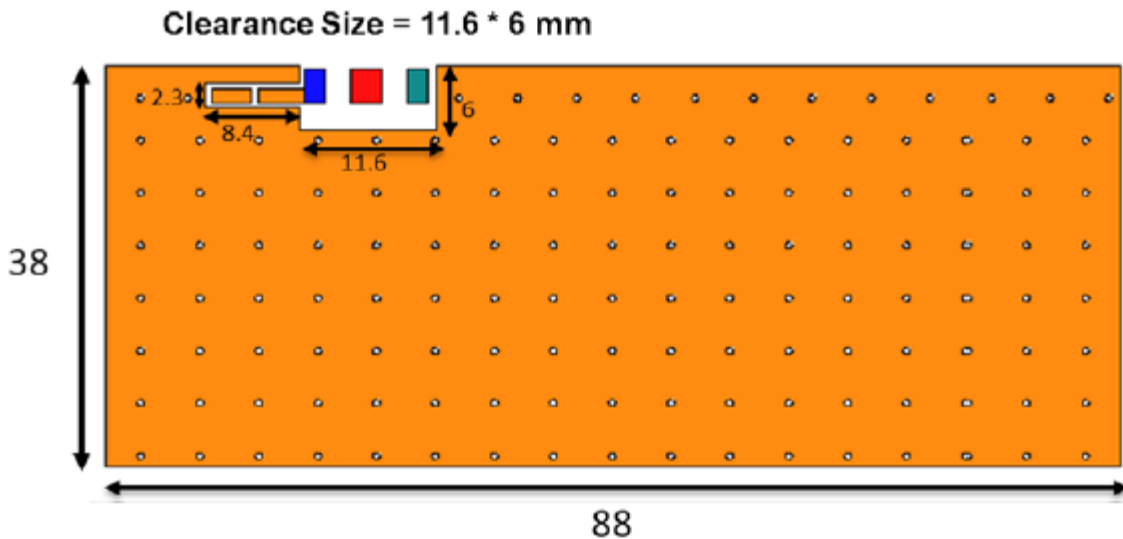


Terminal name	Function
S1	Feeding Point
S2	Soldering Point

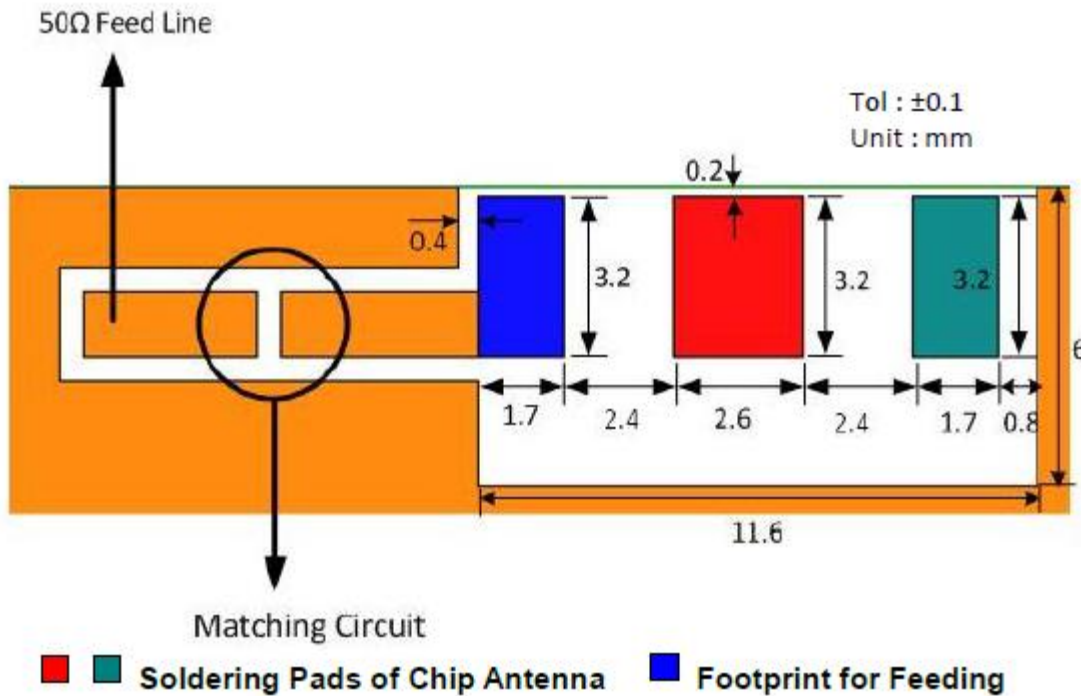
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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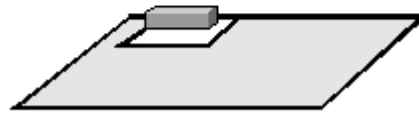
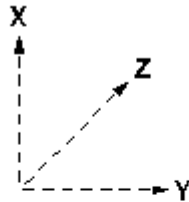
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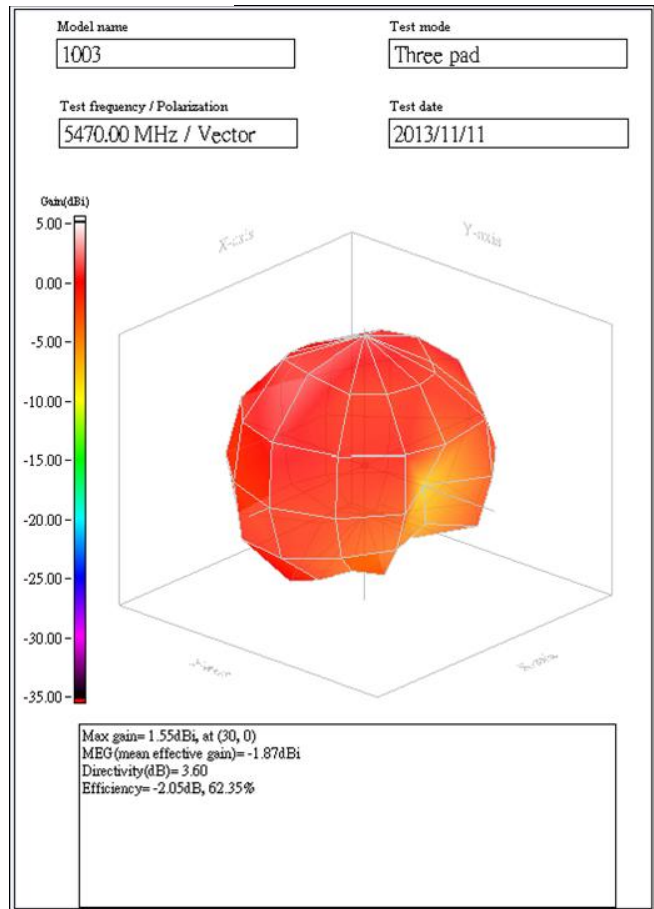
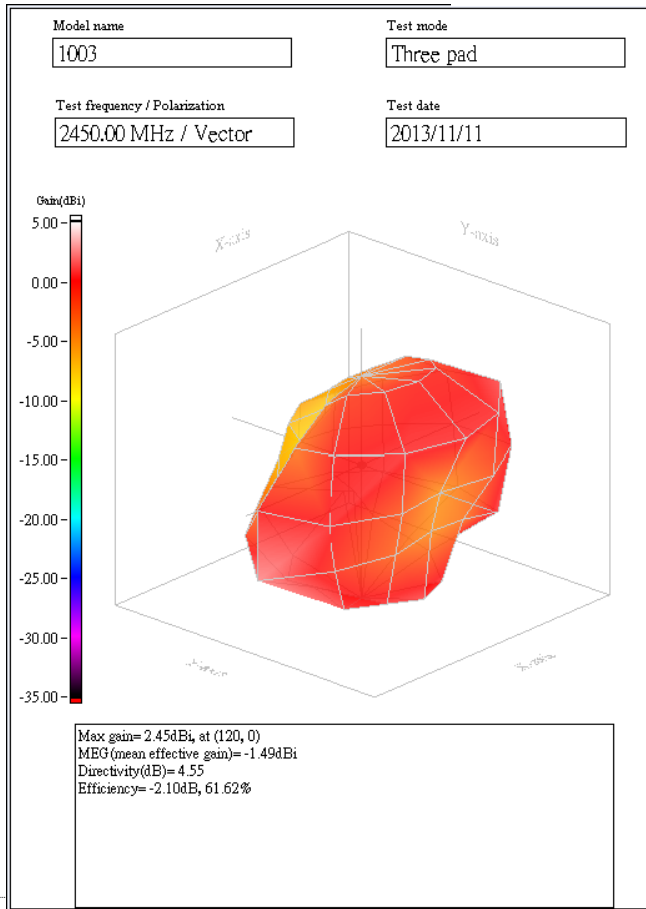
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REFERENCE DESIGN OF EVALUATION BOARD



Evaluation board and XYZ direction



Radiation pattern

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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

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 23, 2020	- New issue

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