

Description: 7020 915MHz Chip Antenna

PART NUMBER: ANT7020LL05R0915A

Features:

- Size : 7.00x2.05x0.78 mm
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- Smart meter
- Industrial remote control
- ISM band equipment

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

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ELECTRICAL SPECIFICATIONS

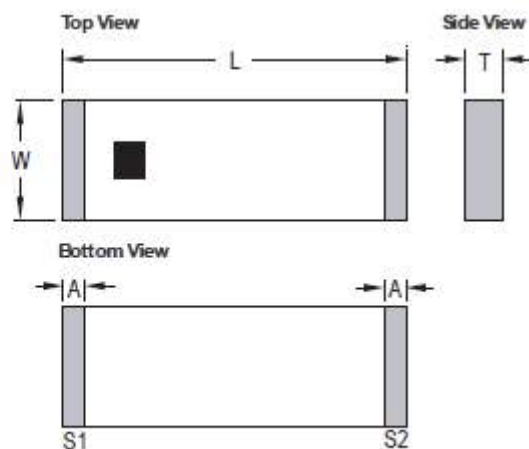
Working Frequency	915 MHz
Bandwidth	60 MHz(Typ.)
Return Loss	10 dB Min.
Polarization	Linear
Antenna Directivity	Omni-directional
Peak Gain	2.5 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	7.00 ±0.20
W (mm)	2.05 ±0.20
T (mm)	0.78 ±0.20
A (mm)	0.45 ±0.20



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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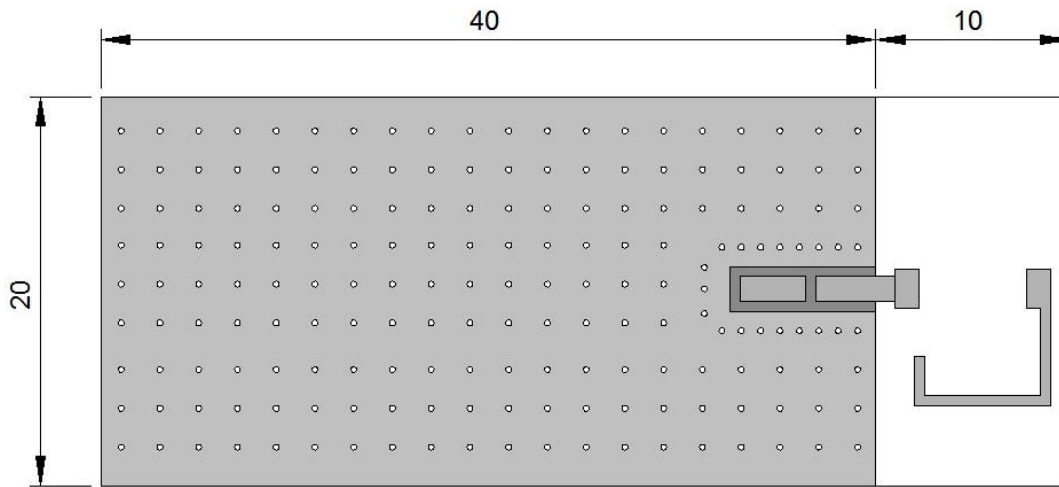
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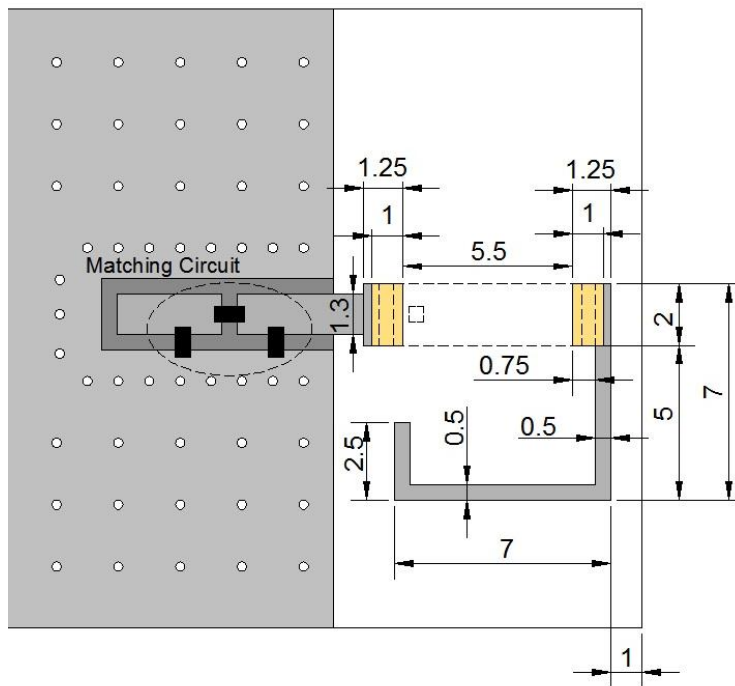
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REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



- : Top Layer
 - : Bottom Layer
 - : Land Pattern
- Unit : mm

Details of soldering Pad

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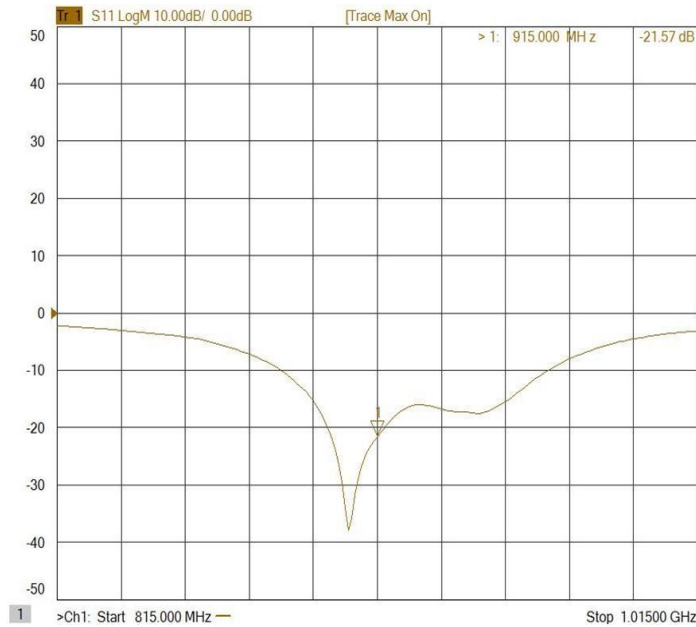
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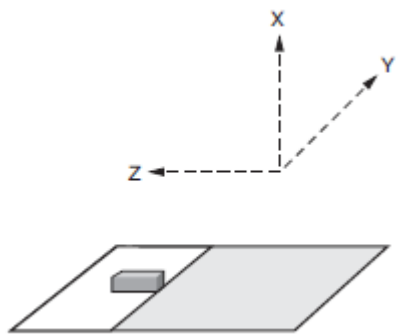
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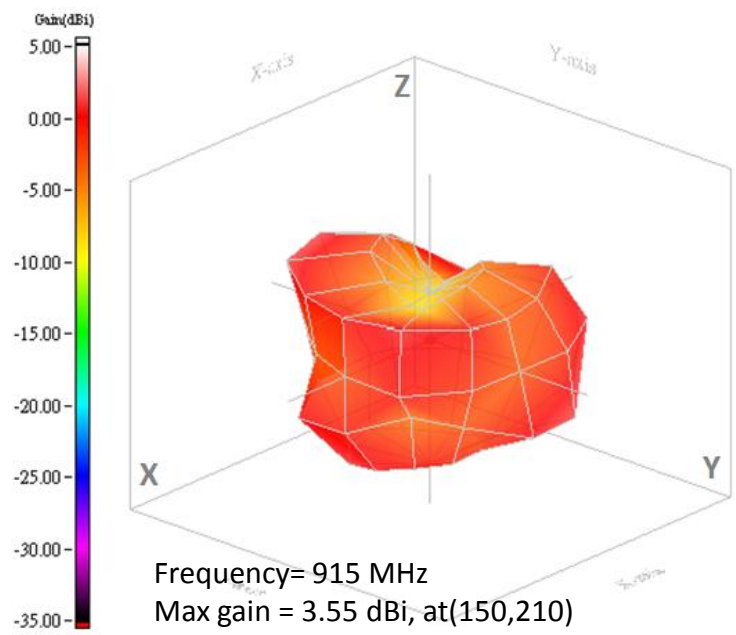
ELECTRICAL PERFORMANCES



Return loss



Evaluation board and XYZ direction



Frequency= 915 MHz
 Max gain = 3.55 dBi, at(150,210)
 Directivity (dB) = 4.55
 Efficiency = -1.00 dB, 79.48%

Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 4, 2020	- New issue

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