

Description: 3216 GPS Chip Antenna

PART NUMBER: ANT3216LL15R1575A

Features:

- Size: 3.2x1.6x1.2 mm
- High radiation efficiency
- · Reflow process compatible
- RoHS compliant



Applications:

- Tablet
- Navigation device
- Telematics box
- Fleet management

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

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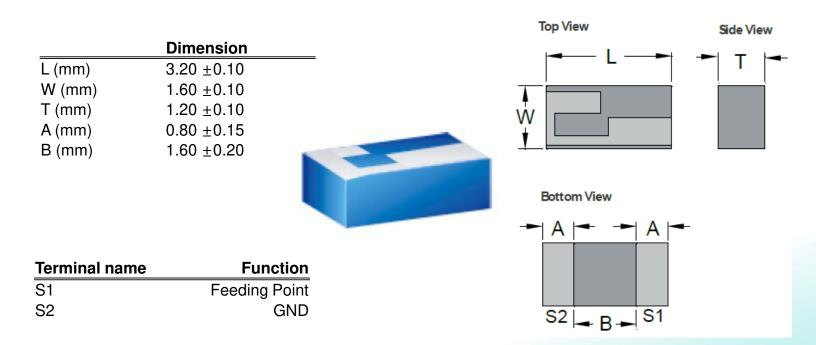
ELECTRICAL SPECIFICATIONS

Working Frequency 1.575 GHz **Bandwidth** 51MHz(Typ.) **Return Loss** 10.0 dB Min **Polarization** Linear **Azimuth Beamwidth** Omni-directional **Peak Gain** 2.01 dBi(Typ.) **Impedance** 50 Ω **Operating Temperature** - 40~105 °C **Maximum Power** 1 W Ag (Environmentally-Friendly Leadless) **Termination Resistance to Soldering Heats** 260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

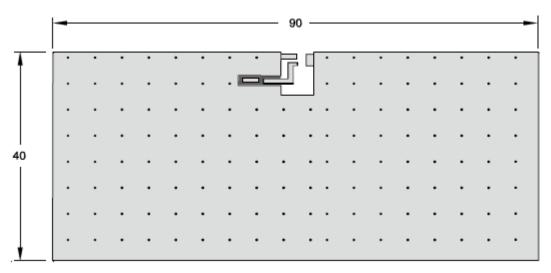




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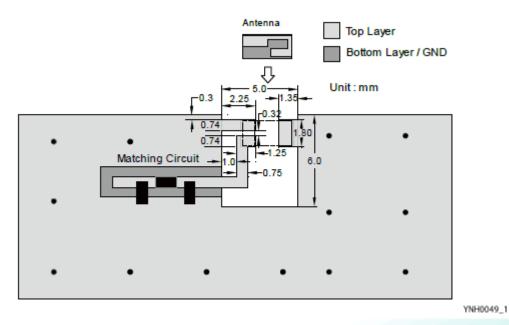
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REFERENCE DESIGN OF EVALUATION BOARD



Unit: mm

Outlook and dimension of evaluation board



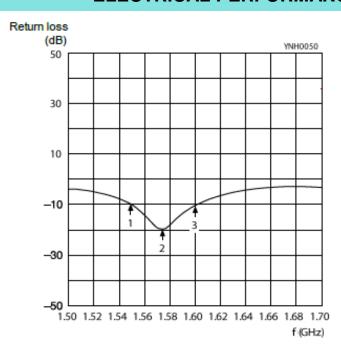
Details of soldering Pad



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ELECTRICAL PERFORMANCES

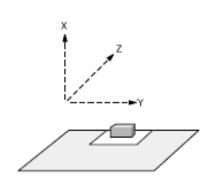


Marker data

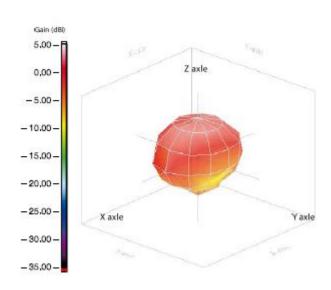
1. 1.551GHz, -10dB

2. 1.575GHz, -20.1dB 3. 1.602GHz, -10dB

Return loss



Evaluation board and XYZ direction



Max gain = 2.01 dBi, at (30,30) MEG (mean effective gain)= -0.62dBi Directivity (dB) = 3.53 Efficiency = -1.52 dB, 70.51%

Radiation pattern

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REVISION HISTORY

Revision Date Description Oct. 14, 2020 Version 1 - New issue