

**Description: 3216 5GHz Chip Antenna**

**PART NUMBER: ANT3216LL05R5000A**

**Features:**

- Size : 3.2x1.6x1.2 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



**Applications:**

- 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**

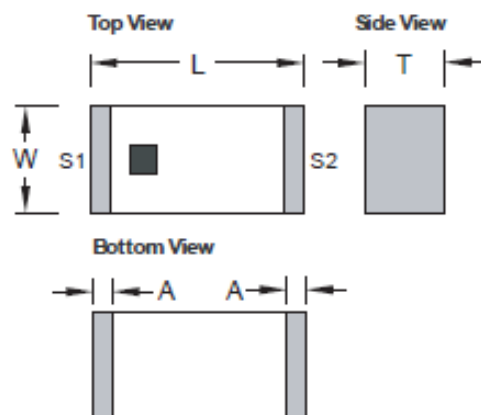
<b>Working Frequency</b>	5.5GHz
<b>Bandwidth</b>	> 1000MHz(Typ.)
<b>Return Loss</b>	10.0 dB Min
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	5.71 dBi(Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum Power</b>	1 W
<b>Termination</b>	Ni / Sn (Environmentally-Friendly Leadless)
<b>Resistance to Soldering Heats</b>	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

**MECHANICAL DRAWING**

	<b>Dimension</b>
L (mm)	3.20 ±0.15
W (mm)	1.60 ±0.15
T (mm)	1.20 ±0.10
C(mm)	0.30 ±0.20



YNH00116

<b>Terminal name</b>	<b>Function</b>
S1	Feeding Point
S2	Soldering Point

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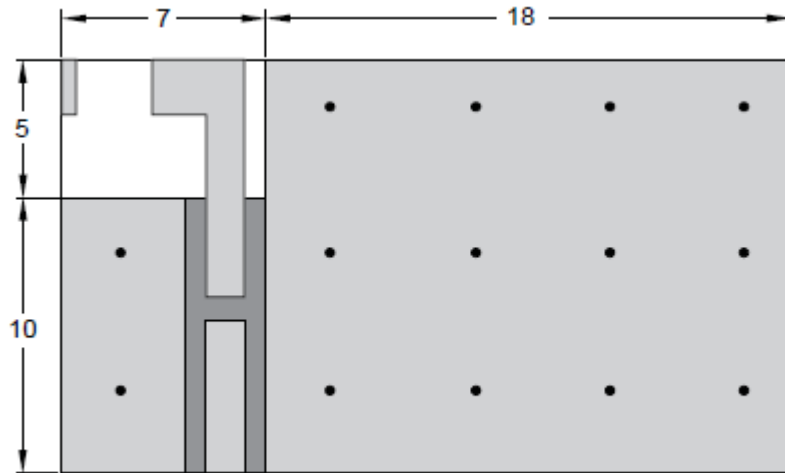
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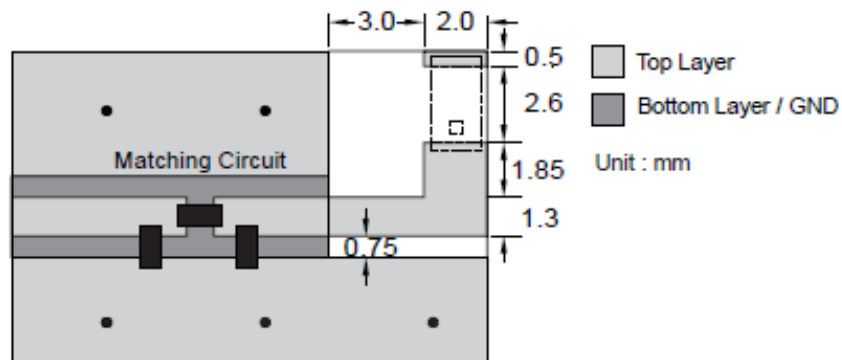
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**REFERENCE DESIGN OF EVALUATION BOARD**



Unit : mm

Outlook and dimension of evaluation board



YNH00117

Details of soldering Pad

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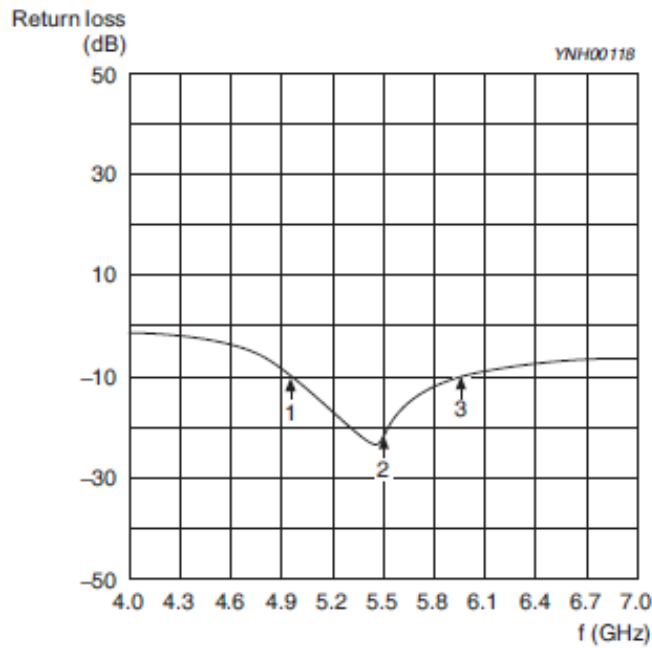
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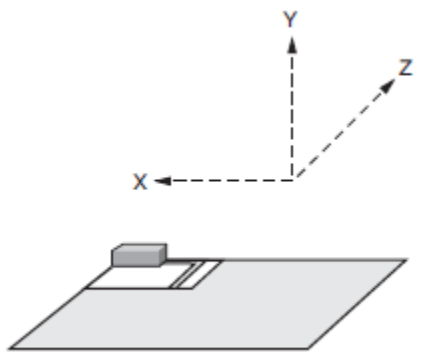
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**ELECTRICAL PERFORMANCES**

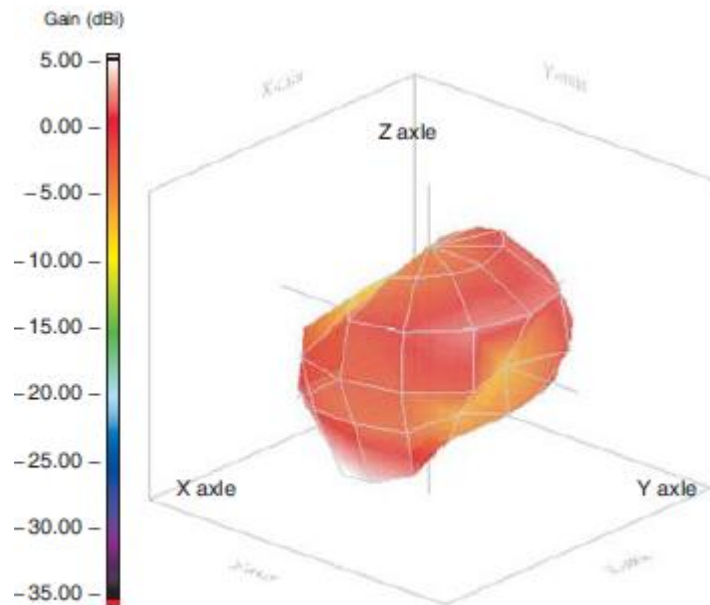


Marker data  
 1. 4.99GHz, -10dB  
 2. 5.5GHz, -22.3dB  
 3. 6.02GHz, -10dB

Return loss



Evaluation board and XYZ direction



Radiation pattern

Frequency= 5.47 GHz  
 Max gain = 5.71 dBi, at (150, 300)  
 MEG (mean effective gain)= -1.39dBi  
 Directivity (dB) = 6.83  
 Efficiency = -1.12dB, 77.33%

YNH00119

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