

Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A

Features:

- Size: 5.3x2.0x1.4 mm
- Omni-directional Radiation
- · Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- 2.4&5GHz WiFi device
- ISM band equipment

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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Ni / Sn (Environmentally-Friendly Leadless)

260°C , 10sec.

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ELECTRICAL SPECIFICATIONS

Working Frequency 2.45 G / 5.5GHz **Bandwidth** 150M / 900MHz(Typ.) **Return Loss** 6.5 dB Min **Polarization** Linear **Azimuth Beamwidth** Omni-directional **Peak Gain** 2.09 / 4.32 dBi(Typ.) **Impedance** 50 Ω **Operating Temperature** - 40~105 °C **Maximum Power** 1 W

Resistance to Soldering Heats

NOTE

Termination

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension	Top View	Side View
L (mm)	5.30 ±0.20	L	→ T →
W (mm)	2.00 ± 0.20	- 1	
T (mm)	1.40 ± 0.30	T 91	
A(mm)	0.40 ±0.20	W S1 O S2 Bottom View	
		THE A	

ierminai name	Function			
S1	Feeding Point			
S2	Soldering Point			

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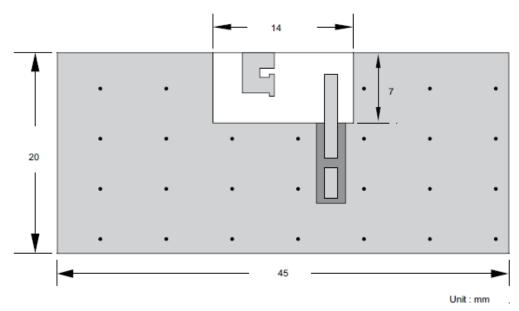
VNHagen



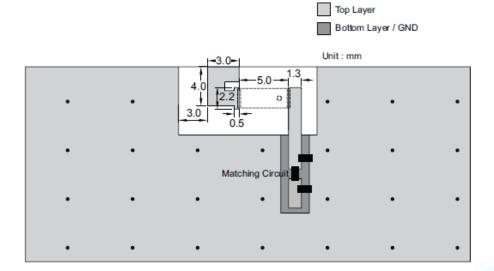
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



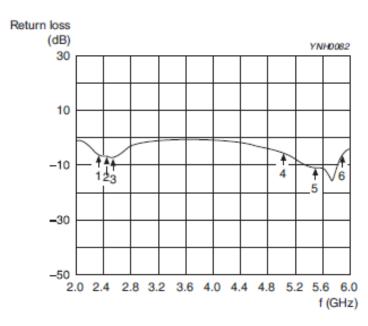
Details of soldering Pad



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ELECTRICAL PERFORMANCES



Marker data

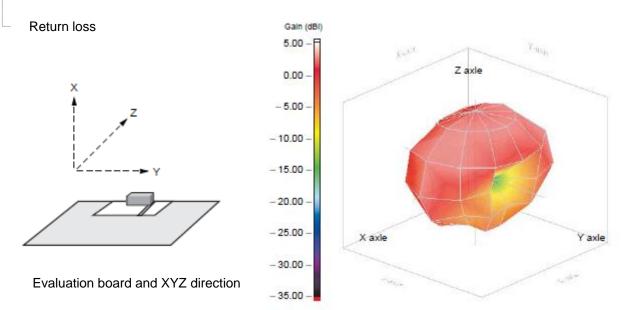
1. 2.37GHz , -6.5dB 2. 2.45GHz , -7.6dB 3. 2.52GHz , -6.5dB 4. 5.05GHz , -6.5dB

5. 50GHz , -11.9dB 6. 95GHz , -6.5dB

Max gain = 2.09 dBi, at (60, 150) MEG (mean effective gain)= -1.18 dBi

Efficiency = -1.49 dB, 71.01 %

Directivity (dB) = 3.58



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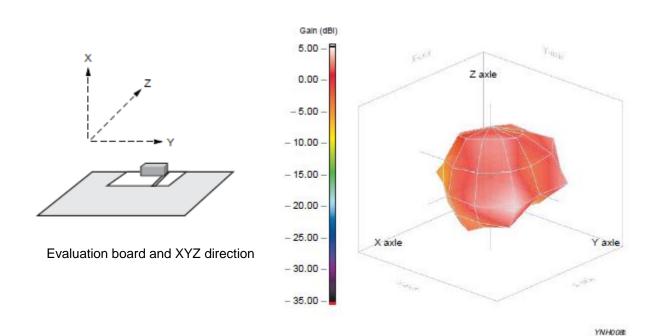
Radiation pattern



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ELECTRICAL PERFORMANCES



Radiation pattern

Frequency= 5.5 GHz Max gain = 4.32 dBi, at (90, 60)MEG (mean effective gain)= -2.57 dBi Directivity (dB) = 6.36Efficiency = -2.04 dB, 62.52 %



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RevisionDateDescriptionVersion 1Oct. 13, 2020- New issue

Mouser Electronics

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Pulse:

ANT5320LL04R2455A