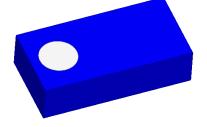


Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

Features:

- Size: 1.6x0.8x0.4 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

All dimensions are in mm / inches

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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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

ELECTRICAL SPECIFICATIONS

Working Frequency 2.45G / 5.5G Hz **Bandwidth** 120 / 900M Hz(Typ.) **Polarization** Linear **Azimuth Beamwidth** Omni-directional

Peak Gain 3.11 / 3.43 dBi(Typ.) **Impedance** 50 Ω

Operating Temperature - 40~105 °C **Maximum Power** 1 W

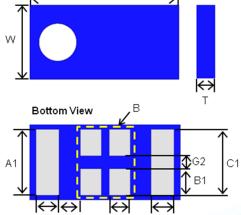
Termination Ag (Environmentally-Friendly Leadless) **Resistance to Soldering Heats** 260°C , 10sec.

NOTE

MECHANICAL DRAWING

	Dimension	_		
L (mm)	1.60 ±0.15	_	Top View	Size View
W (mm)	0.80 ± 0.15			\rightarrow
T (mm)	0.40 ± 0.15			
A1(mm)	0.70 ± 0.15		W	
A2(mm)	0.25 ± 0.15			
B1(mm)	0.30 ± 0.15		Ψ	\leftrightarrow
B2(mm)	0.25 ± 0.15		Bottom View , B	Т
C1(mm)	0.70 ± 0.15		Bottom view	
C2(mm)	0.25 ± 0.15			1
G1(mm)	0.20 ± 0.05		A1	⊉ G2 C1
G2(mm)	0.10 ± 0.05			\$\B1 \$\dagger\$
			Θ	\leftrightarrow
Torminal name		unction	A2 G1 B2	C2

Terminal name	Function
В	Feeding Point
A1,A2	Soldering Point for 2.4GHz
C1,C2	Soldering Point for 5GHz



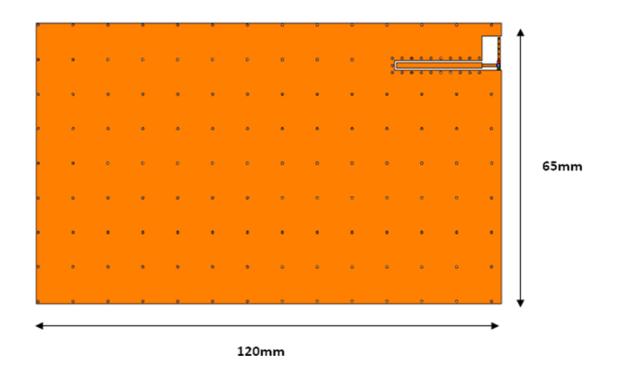
^{1.} The specification is defined on Pulse evaluation board



Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD



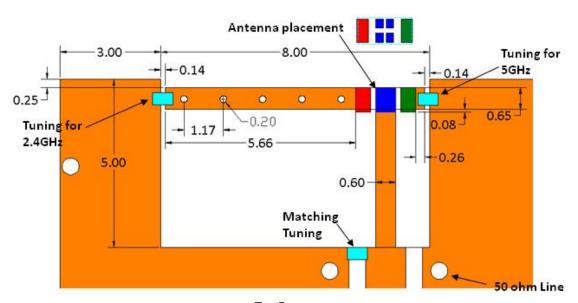
Outlook and dimension of evaluation board



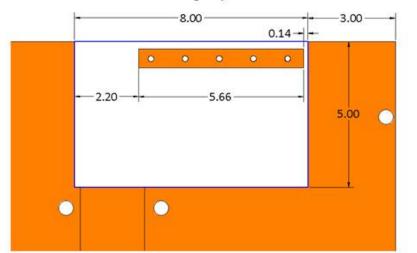
Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD



Top Layer



Unit: mm

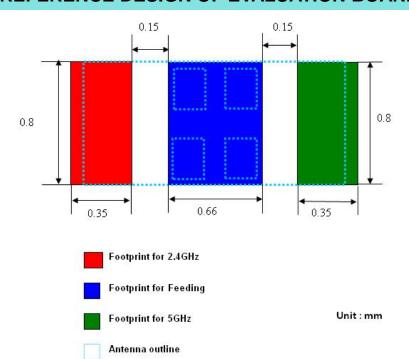
Bottom Layer

Details of soldering Pad

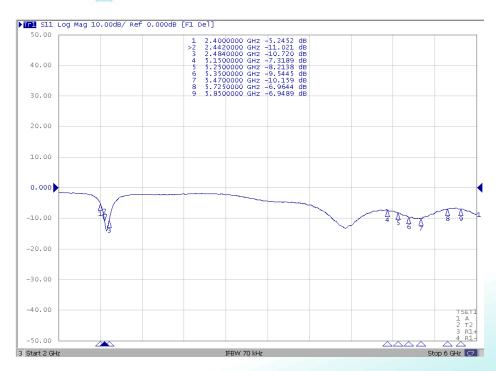
Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD



Footprint



Return loss

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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

ELECTRICAL PERFORMANCES

Model name Test mode DΒ 1608 Test frequency / Polarization Test date 2450.00 MHz / Vector 2014/11/6 Gain(dBi) 5.00 - $Y_{\text{-maj}_3}$ X-1313 0.00 --5.00 · -10.00 --15.00 -20.00 -25.00 -Evaluation board and XYZ direction -30.00-35.00 -Max gain= 3.11dBi, at (120, 150) MEG (mean effective gain)= -2.69dBi Directivity(dB)= 5.31 Efficiency= -2.20dB, 60.28%

Radiation pattern



Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

ELECTRICAL PERFORMANCES

Model name Test mode DB 1608 Test frequency / Polarization Test date 5470.00 MHz / Vector 2014/11/6 Gain(dBi) 5.00 - $Y_{\gamma\eta\chi_{\hat{1}\hat{3}}}$ X43X¹⁹ 0.00 --5.00 --10.00 -15.00 --20.00 -25.00 -Evaluation board and XYZ direction -30.00 · -35.00 -Max gain= 2.50dBi, at (90, 60) MEG (mean effective gain)= -3.79dBi Directivity(dB)= 5.07 Efficiency= -2.57dB, 55.28%

Radiation pattern