



PART NUMBER: ANT1204F007R0870A

Features:

- Size: 12.2 x 4.0 x 1.6 mm
- Omni-directional Radiation
- · Tape & reel automatic mounting
- · Reflow process compatible
- RoHS compliant



Applications:

- Smart meter
- · Industrial remote control

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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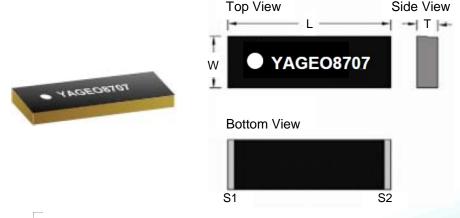
ELECTRICAL SPECIFICATIONS				
Centre Frequency	870 MHz			
Bandwidth	30 MHz (Typ.)			
Return Loss	10 dB Min			
Polarization	Linear			
Azimuth Beamwidth	Omni-directional			
Peak Gain	1.67 dBi(Typ.)			
Impedance	50 Ω			
Operating Temperature	- 40~85 °C			
Maximum Power	1 W			
Termination	Cu / Au (Environmentally-Friendly Leadless)			
Resistance to Soldering Heats	260°C , 10sec.			

NOTE

MECHANICAL DRAWING

	Dimension
L (mm)	12.2 ±0.2
W (mm)	4.0 ±0.2
T (mm)	1.6 ±0.2

TERMINATION	Function		
S1	Feeding Point		
S2	Soldering Point		



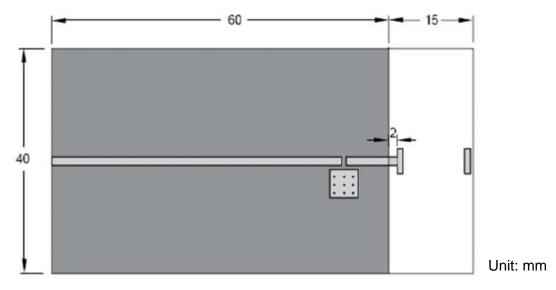
Antenna outlines

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

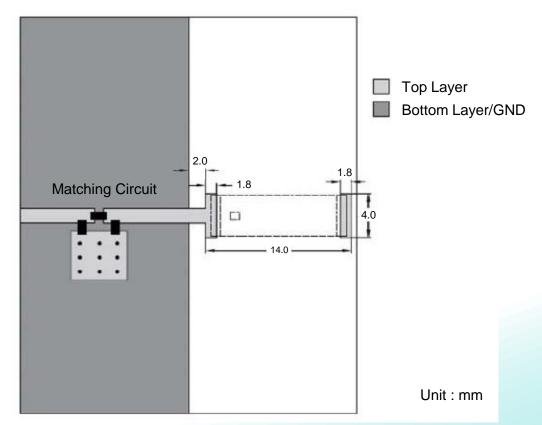


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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



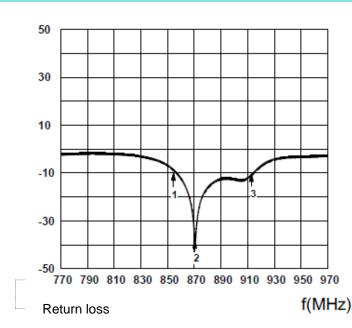
Details of soldering Pad

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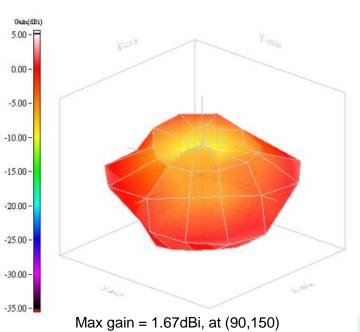
ELECTRICAL PERFORMANCES



Marker data

- 1. 856 MHz, -10dB
- 2. 870 MHz, -34dB
- 3. 914 MHz, -10dB

Evaluation board and XYZ direction



Radiation pattern

MEG (mean effective gain) = -2.69dBi Directivity (dB) = 3.87

Efficiency = -2.20dB, 60.3%

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TECHNICAL DATA SHEET

Description: 1204 UHF 870MHz Chip Antenna

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Revision	Date	Description
Version 1	Mar. 8, 2021	- New issue for Pulse version.