



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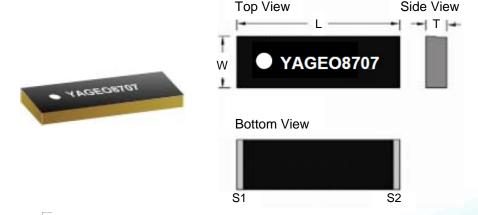
ELECTRICAL SPECIFICATIONS	
Centre Frequency	870 MHz
Bandwidth	30 MHz (Typ.)
Return Loss	10 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.67 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~85 ℃
Maximum Power	1 W
Termination	Cu / Au (Environmentally-Friendly Leadless)
Resistance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

#### NOTE

#### **MECHANICAL DRAWING**

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

TERMINATION	Function
S1	Feeding Point
S2	Soldering Point



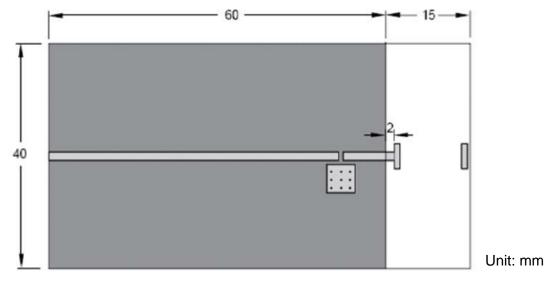
Antenna outlines

<sup>1.</sup> The specification is defined on Pulse evaluation board

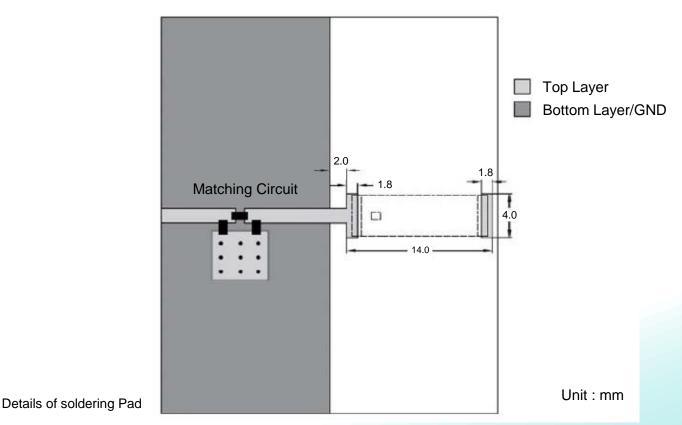


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#### REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

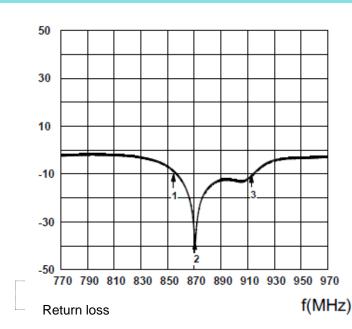


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### **ELECTRICAL PERFORMANCES**



Marker data

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

Evaluation board and XYZ direction

0.00 - 0.

Radiation pattern

Max gain = 1.67dBi, at (90,150) MEG (mean effective gain) = -2.69dBi Directivity (dB) = 3.87 Efficiency = -2.20dB, 60.3%

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