

**Description**: 7020 2.4-2.5GHz Chip Antenna

PART NUMBER: ANT7020LL05R2400A

## Features:

- Size: 7.00x2.00x0.75 mm
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

# **Applications:**

- 2.4 GHz WiFi device
- · Bluetooth gadget
- · Zigbee devic
- ISM band equipment

## **ELECTRICAL SPECIFICATIONS**

Frequency Range
Return Loss
Polarization
Azimuth Beamwidth
Peak Gain
Impedance
Operating Temperature
Maximum Power
Termination
Resistance to Soldering Heats

2.4-2.5GHz 10 dB Max. Linear Omni-directional 2.62 dBi (Typ.) 50 Ω

- 40~105 °C

Ni / Sn (Environmentally-Friendly Leadless)

260°C , 10sec.

#### NOTE

1. The specification is defined on Pulse evaluation board

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: 7020 2.4-2.5GHz Chip Antenna

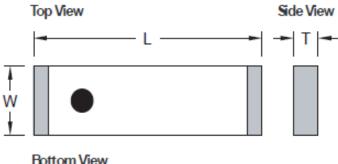
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## **MECHANICAL DRAWING**



	Dimension	
L (mm)	7.00 ±0.20	
W (mm)	$2.00 \pm 0.20$	
T (mm)	$0.75 \pm 0.20$	
A (mm)	$0.45 \pm 0.20$	

Terminal name	Function
S1	Feeding Point
S2	Soldering Point



DOTTONII VICW	
- A  <del>-</del>	A
S1	S2
	1

YNH00120

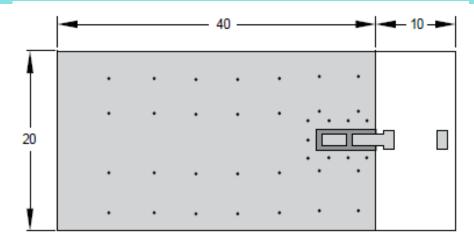


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Unit: mm

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## REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

Top Layer
Bottom Layer / GND
Unit : mm

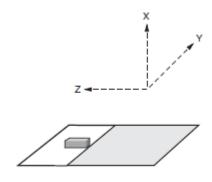
Details of soldering Pad



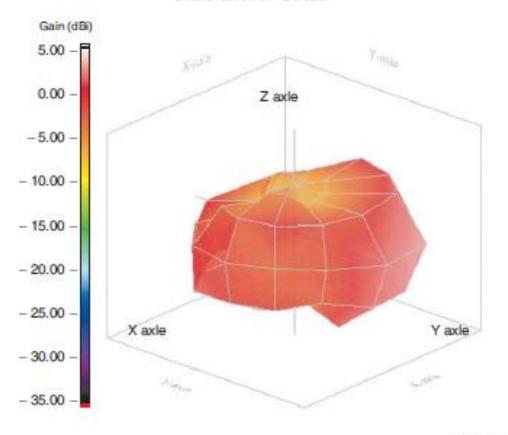
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## REFERENCE DESIGN OF EVALUATION BOARD



Evaluation board and XYZ direction



Frequency= 2.45 GHz Max gain = 2.62 dBi, at (90,120) MEG (mean effective gain)= -2.28 dBi Directivity (dB) = 3.67 Efficiency = -1.05 dB, 78.49%

YNH00123

Radiation pattern

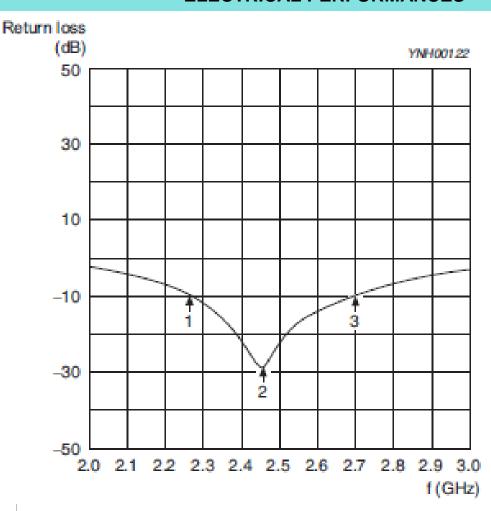
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## **ELECTRICAL PERFORMANCES**



Maker data 2.27GHz, -10dB 2.45GHz, -28.3dB 2.69GHz, -10dB

Return loss



Date

Nov. 20, 2020

Revision

Version 1

## **TECHNICAL DATA SHEET**

Description: 7020 2.4-2.5GHz Chip Antenna

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# REVISION HISTORY Description

- New issue