

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna ANT7020LL05R0870A

870 MHz **7020 Series**



YAGEO Phicomp



FEATURES

- Compact size
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

<u>APPLICATIONS</u>

- Smart meter
- Industrial remote control
- ISM band equipment

ORDERING INFORMATION

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

PART NUMBER

ANT 7020 L L05 R 0870A (1) (2) (3) (4) (5)

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $7020 = 7.0 \times 2.0 \text{ mm}$

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L05

(5) PACKING TYPE

R = Tape and Reel

(6) WORKING FREQUENCY

0870 = 0.87GHz

PHYCOMP CTC

CAN4311772050872K

12NC

431177205087



<u>SPECIFICATION</u>

-Table I

DESCRIPTION	VALUE
Centre Frequency	870M Hz
Bandwidth	37MHz (Typ.)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.83 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40 ~ 105 °C
Maximum Power	l W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 °C , 10sec.

NOTE

I. The specification is defined on Yageo evaluation board

DIMENSIONS

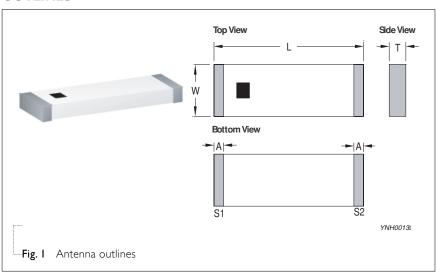
Table 2 Machinical Dimension

	DIMENSION
L (mm)	7.00 ±0.20
W (mm)	2.05 ±0.20
T (mm)	0.78 ±0.20
A (mm)	0.45 ±0.20

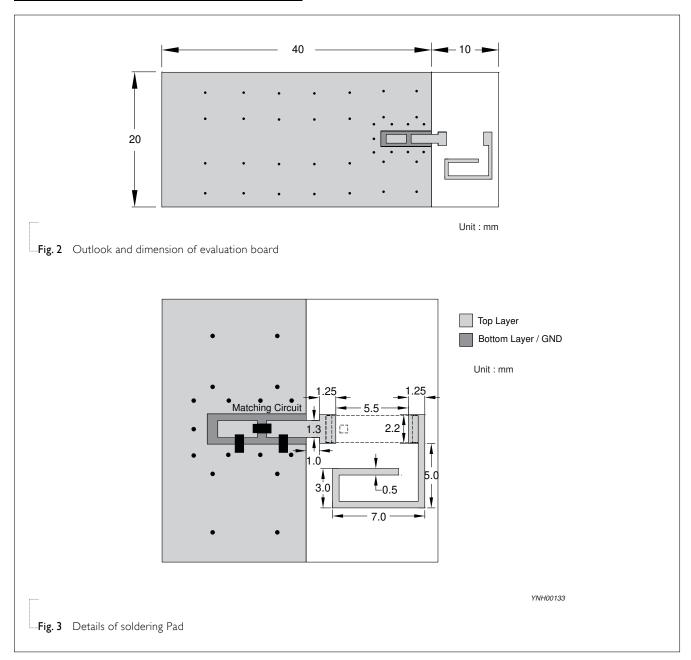
Table 3 Termination configuration

TERMINAL NAME	FUNCTION
SI	Feeding Point
S2	Soldering Point

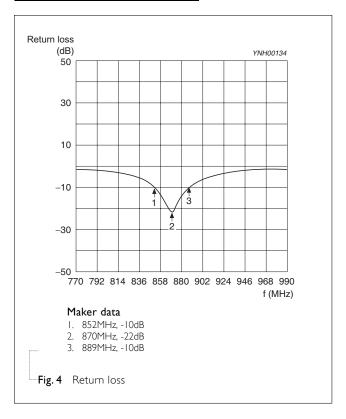
OUTLINES

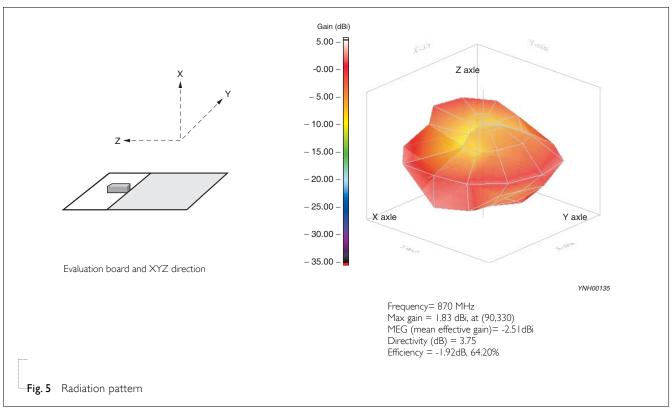


REFERENCE DESIGN OF EVALUATION BOARD



ELECTRICAL PERFORMANCES







Product specification

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WIRELESS COMPONENTS Ceramic Chip Antenna

REVISION HISTORY

CHANGE NOTIFICATION REVISION DATE **DESCRIPTION**

Version 0 Mar. 27, 2013

- New datasheet for Ceramic Chip Antenna, 870MHz application, 7020 series

