

DATA SHEET

WIRELESS COMPONENTS Ceramic Chip Antenna ANT1003LL15R1524A 2.4GHz AND GPS 1003 Series

Product Specification –March 28, 2013 V.0



YAGEO Phícomp

WIRELESS COMPONENTS Ceramic Chip Antenna

2 6

FEATURES

- Cover dual frequency bands in 2.4 & 1.575 GHz
- Compact size
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Tablet
- Navigation device
- Telematics box
- Fleet management
- 2.4 GHz WiFi device
- Bluetooth gadget
- Zigbee device
- 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 1003 L L15 R 1524A (I) (2) (3) (4) (5) (6)

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $1003 = 10 \times 3 \text{ mm}$

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

LI5

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

1524 = 1.575 / 2.4GHz

PHYCOMP CTC

CAN4311756151521K

12NC

431175615152

WIRELESS COMPONENTS Ceramic Chip Antenna

SPECIFICATION

VALUE
1.575 GHz / 2.45 GHz
I5 MHz (Тур.) / 84 MHz (Тур.)
6.49 dB min
Linear
Omni-directional
I.15dBi / 2.90 dBi
50 Ω
- 40~105 °C
W
Ni / Sn (Environmentally-Friendly Leadless)
260° C , 10sec.

ΝΟΤΕ

I. The specification is defined on Yageo evaluation board

DIMENSIONS

Table 2	Table 2 Machinical Dimension		
	DIMENSION		
L (mm)	9.90 ± 0.15		
W (mm)	3.20 ± 0.15		
T (mm)	1.47 ± 0.15		
A (mm)	2.81 ± 0.15		
B (mm)	1.23 ± 0.15		
C (mm)	1.03 ± 0.15		
D (mm)	1.03 ± 0.15		
E (mm)	1.03 ± 0.15		
F (mm)	1.03 ± 0.15		
G (mm)	0.60 ± 0.15		
H (mm)	0.83 ± 0.15		
l (mm)	0.83 ± 0.15		
J (mm)	0.83 ± 0.15		
K (mm)	0.83 ± 0.15		
M (mm)	2.81 ± 0.15		
N (mm)	1.23 ± -0.15		

OUTLINES

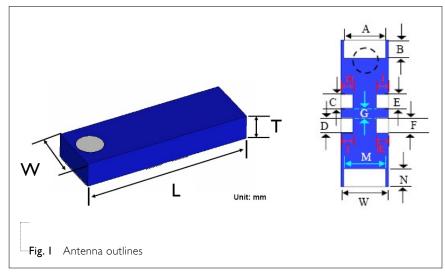
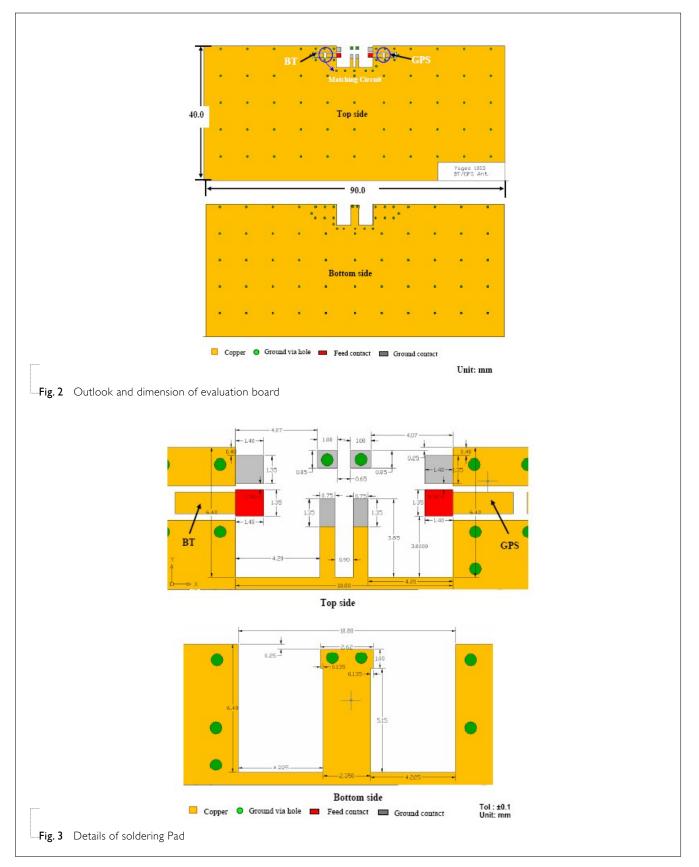


Table 3 Termination configuration

TERMINAL NAME	FUNCTION	TERMINAL NAME	FUNCTION
A	Feed BT/GND	Н	Ground
В	Feed BT/GND	I	Ground
С	Ground	J	Ground
D	Ground	К	Ground
E	Ground	М	Feed GPS/GND
F	Ground	Ν	Feed GPS/GND

WIRELESS COMPONENTS Ceramic Chip Antenna

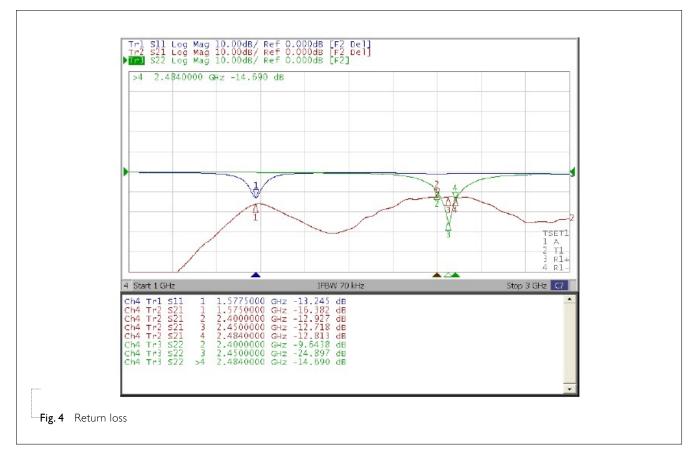
REFERENCE DESIGN OF EVALUATION BOARD

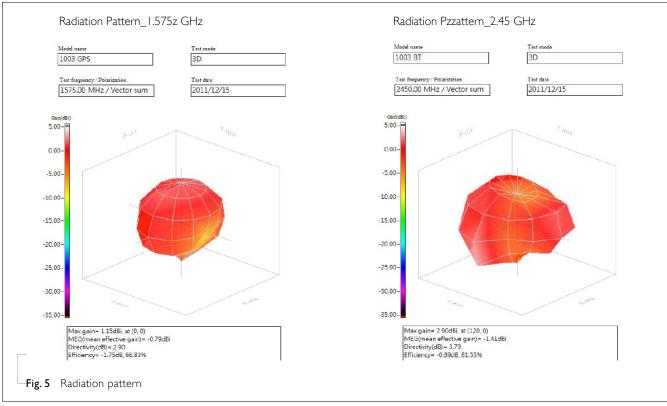




WIRELESS COMPONENTS Ceramic Chip Antenna

ELECTRICAL PERFORMANCES







WIRELESS COMPONENTS Ceramic Chip Antenna

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Mar. 28, 2013	-	- New data sheet for Ceramic Chip Antenna, 2.4 GHz and GPS,
_			size 10 × 3 mm



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 A09-Y11NF
 A09-F8NF-M
 A09-F5NF-M