

# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT5320LL14R1516A

GPS/GALILEO & GLONASS

5320 Series



FEATURES

- Compact size
- High radiation efficiency
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Tablet
- Navigation device
- Telematics box
- Fleet management

ORDERING INFORMATION

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

**PART NUMBER**

**ANT 5320 L LI4 R I516A**  
 (1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

5320 = 5.3 × 2.0 mm

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**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

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**(4) SERIAL NO.**

LI4

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**(5) PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

I516 = 1.575/1.602 GHz

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**PHYCOMP CTC**

CAN4311753141562K

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**I2NC**

431175314156

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**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Centre Frequency	1.575G/1.602GHz
Bandwidth	80 MHz(Typ.)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	GPS/Galileo: 1.45 dBi (Typ.) Glonass: 1.46 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	-40~105 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

**NOTE**

**DIMENSIONS**

Table 2 Machinical Dimension

	DIMENSION
L (mm)	5.30 ±0.20
W (mm)	2.00 ±0.20
T (mm)	1.10 ±0.20
A (mm)	0.80 ±0.15
B (mm)	2.20 ±0.15
C (mm)	0.70 ±0.15

**OUTLINES**

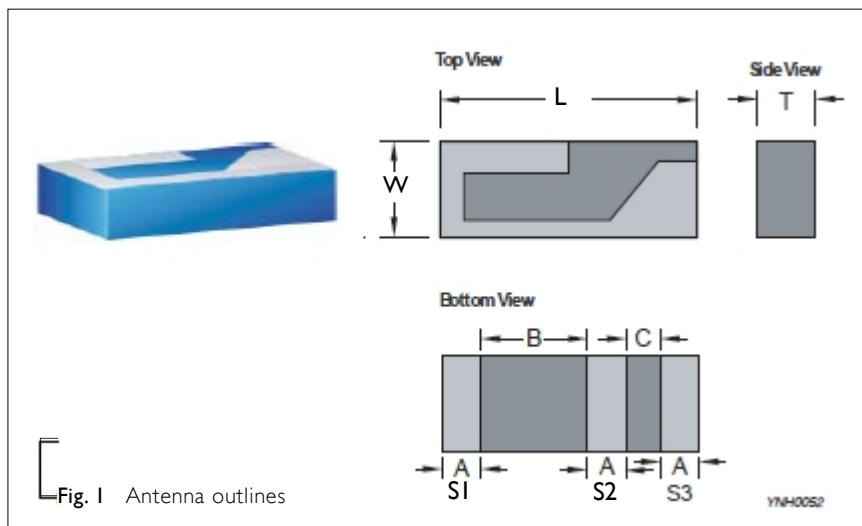


Table 3 Termination configuration

TERMINAL NAME	FUNCTION
S1	GND
S2	Feeding Point
S3	GND

REFERENCE DESIGN OF EVALUATION BOARD

(Size=8.25\*7.1mm)

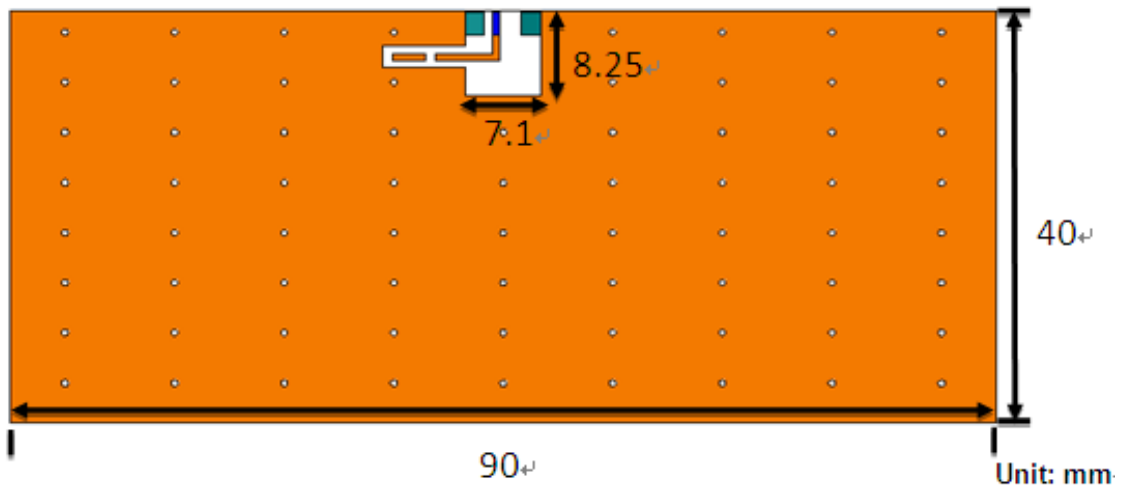
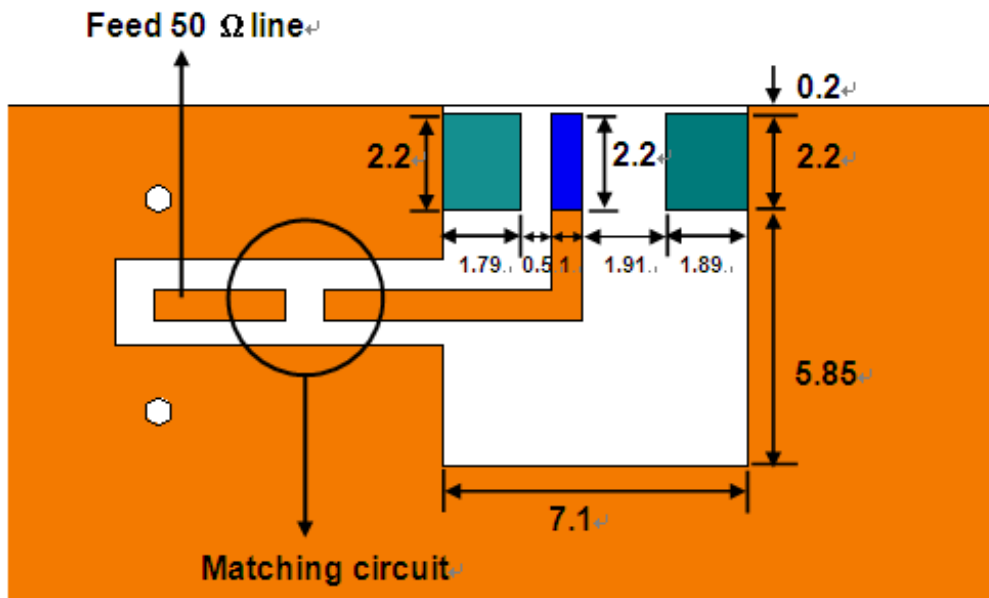


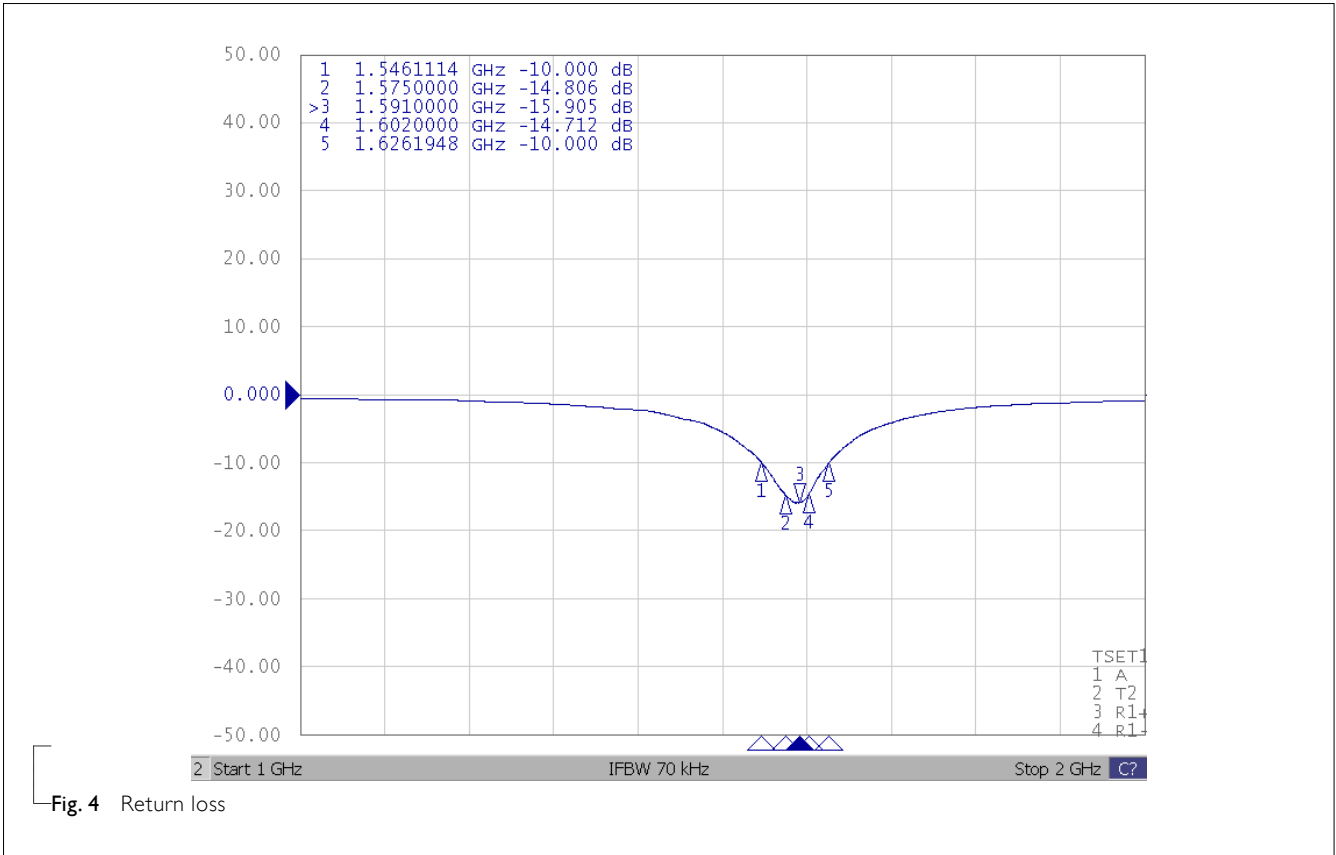
Fig. 2 Outlook and dimension of evaluation board



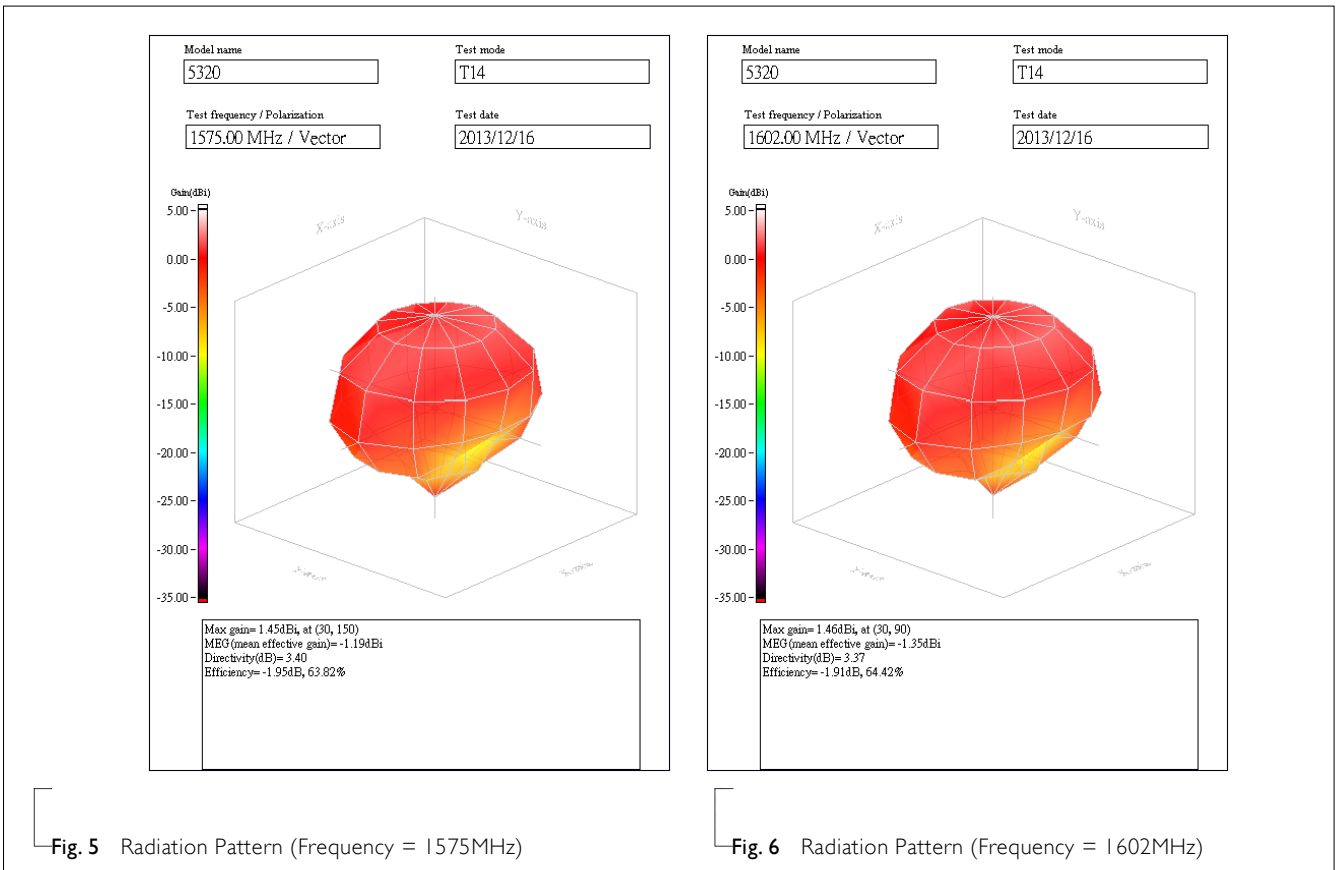
■ Soldering Pads of Chip Antenna    ■ Footprint for Feeding

Fig. 3 Details of soldering pad

**ELECTRICAL PERFORMANCES**



**Fig. 4** Return loss



**Fig. 5** Radiation Pattern (Frequency = 1575MHz)

**Fig. 6** Radiation Pattern (Frequency = 1602MHz)

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Apr. 25, 2014	-	- New data sheet for Ceramic Chip Antenna, 1.575 GHz & 1.602 GHz, size 5.3 × 2.0 mm

单击下面可查看定价，库存，交付和生命周期等信息

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