

# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT8868LL00R1880A

DECT

8868 Series



FEATURES

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

APPLICATIONS

- DECT cordless telephone

ORDERING INFORMATION

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

**PART NUMBER**

**ANT 8868 L L00 R 1880A**  
 (1) (2) (3) (4) (5) (6)

---

**(1) PRODUCT**

ANT = Antenna

---

**(2) SIZE**

8868 = 8.8 × 6.8 mm

---

**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

---

**(4) SERIAL NO.**

L00

---

**(5) PACKING TYPE**

R = Tape and Reel

---

**(6) WORKING FREQUENCY**

1880 = 1.88 - 2.0GHz

---

**PHYCOMP CTC**

CAN4311788001881K

---

**I2NC**

431178800188

---

**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Centre Frequency	1.88 ~ 2.0 GHz
Bandwidth	220 MHz(Typ.)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	6.13 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40 ~ 105 °C
Maximum Power	1 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)	8.80 ± 0.20
W (mm)	6.80 ± 0.20
T (mm)	0.90 ± 0.20
A (mm)	4.30 ± 0.20
B (mm)	1.30 ± 0.20
C (mm)	0.50 ± 0.30
D (mm)	1.00 ± 0.20
E (mm)	7.60 ± 0.20

**OUTLINES**

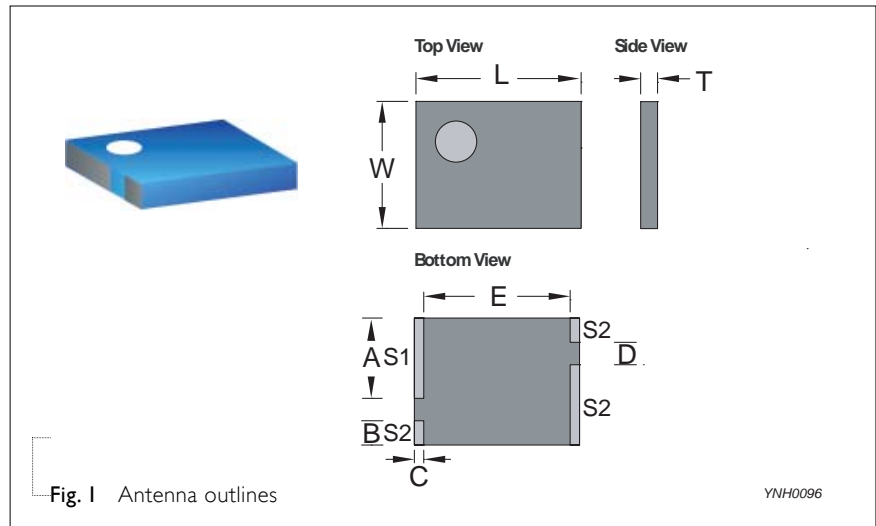


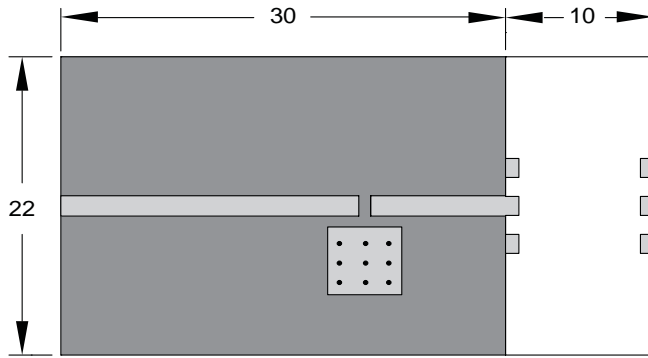
Fig. I Antenna outlines

YNH0096

Table 3 Termination configuration

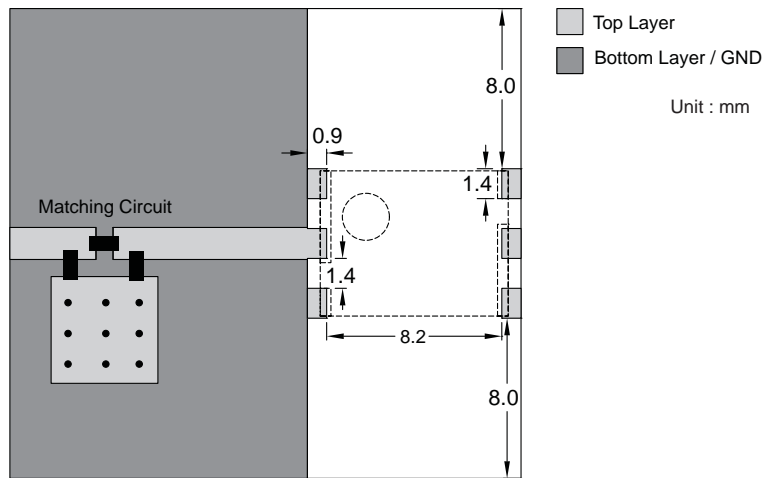
TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Soldering Point

**REFERENCE DESIGN OF EVALUATION BOARD**



Unit : mm

**Fig. 2** Outlook and dimension of evaluation board

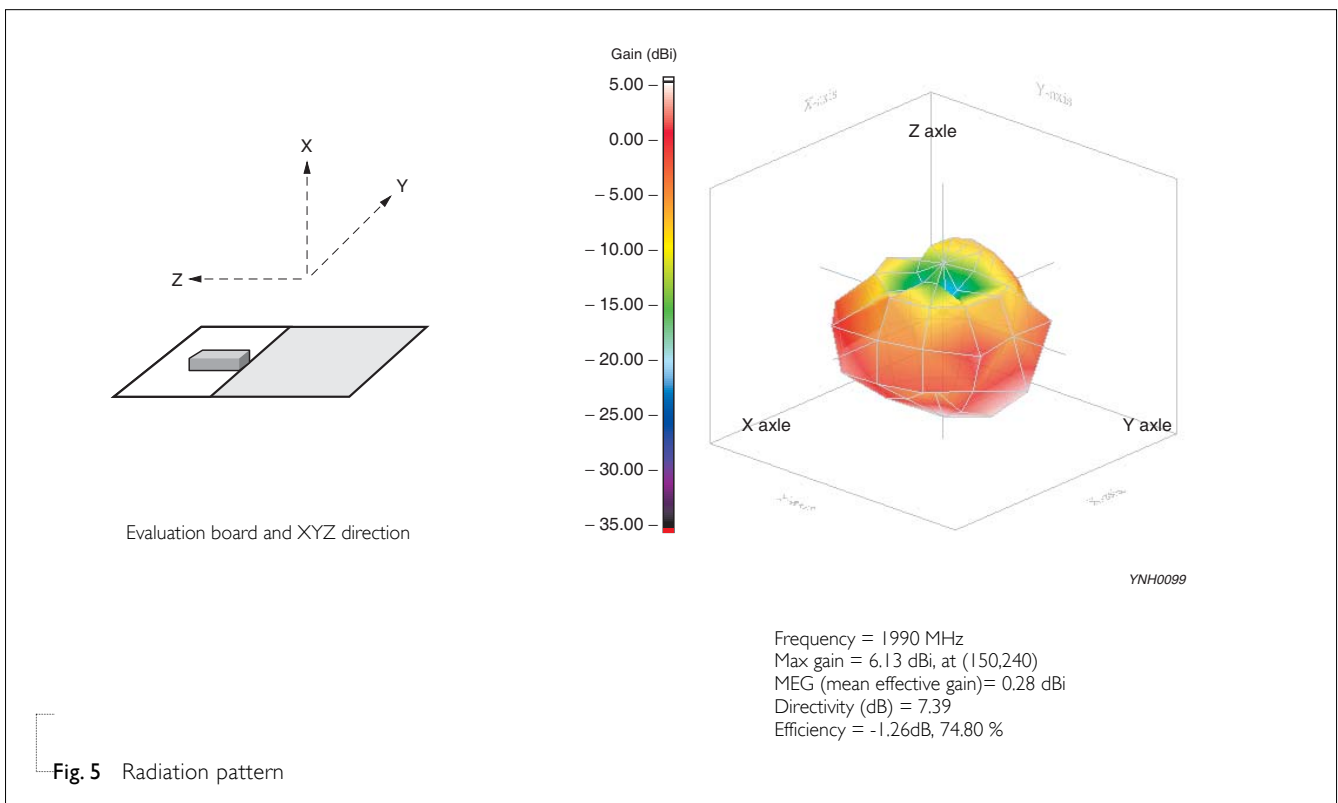
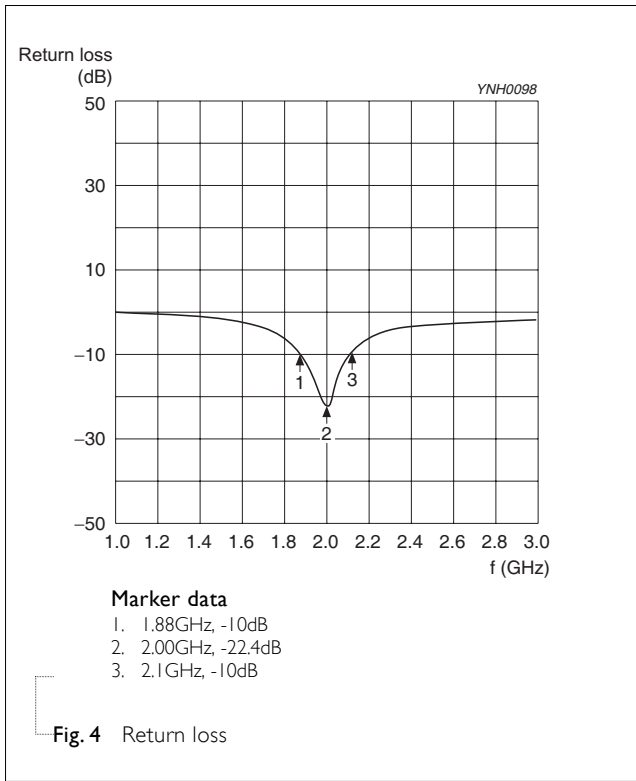


Unit : mm

**Fig. 3** Details of soldering Pad

YNH0097

**ELECTRICAL PERFORMANCES**



REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Mar. 27, 2013	-	- New datasheet for Ceramic Chip Antenna, DECT application, 8868 series