



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 Antenna
ANTB505B002TWPENS

PENTA-BAND
3505 Series



FEATURES

- Compact Size
- High radiation efficiency
- Multi-band coverage
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Global cellular network devices
- Telematics
- Cellular broadband access
- M2M module

ORDERING INFORMATION

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

PART NUMBER

ANT 3505 B 002 T WPENS
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

3505 = 35 × 5 mm

(3) ANTENNA TYPE

B= Bulk Antenna

(4) SERIAL NO.

002

(5) PACKING STYLE

T = Tray

(6) WORKING FREQUENCY

WPEN=0.8/0.9/1.8/1.9/2.1 GHz

PHYCOMP CTC

CAN439344902PENIB

I2NC

439344902PEN

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Working Frequency	824~960 / 1710~2170 MHz
Bandwidth	140MHz / 470 MHz (Typ.)
VSWR	2.8 / 3.5 dB max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.91 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	4 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 5sec.

NOTE

I. The specification is defined on Yageo evaluation board

DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	35.00 ±0.20
W (mm)	5.00 ±0.20
T (mm)	6.00 ±0.20
A (mm)	2.00 ±0.20
B (mm)	1.50 ±0.20
C (mm)	1.27 ±0.20

OUTLINES

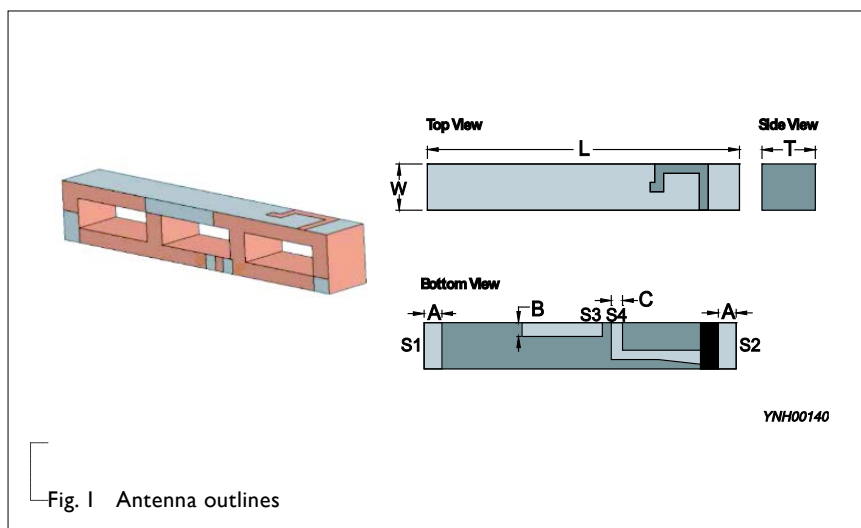


Fig. 1 Antenna outlines

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
S1	Soldering Point
S2	Soldering Point
S3	GND
S4	Feeding Point

REFERENCE DESIGN OF EVALUATION BOARD

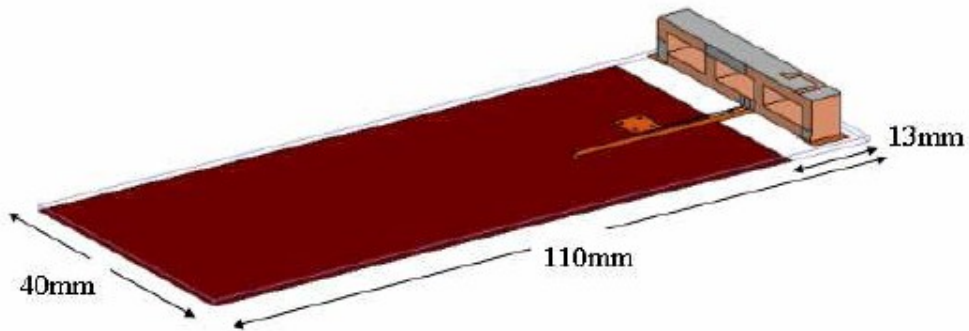


Fig. 2 Outlook and dimension of evaluation board

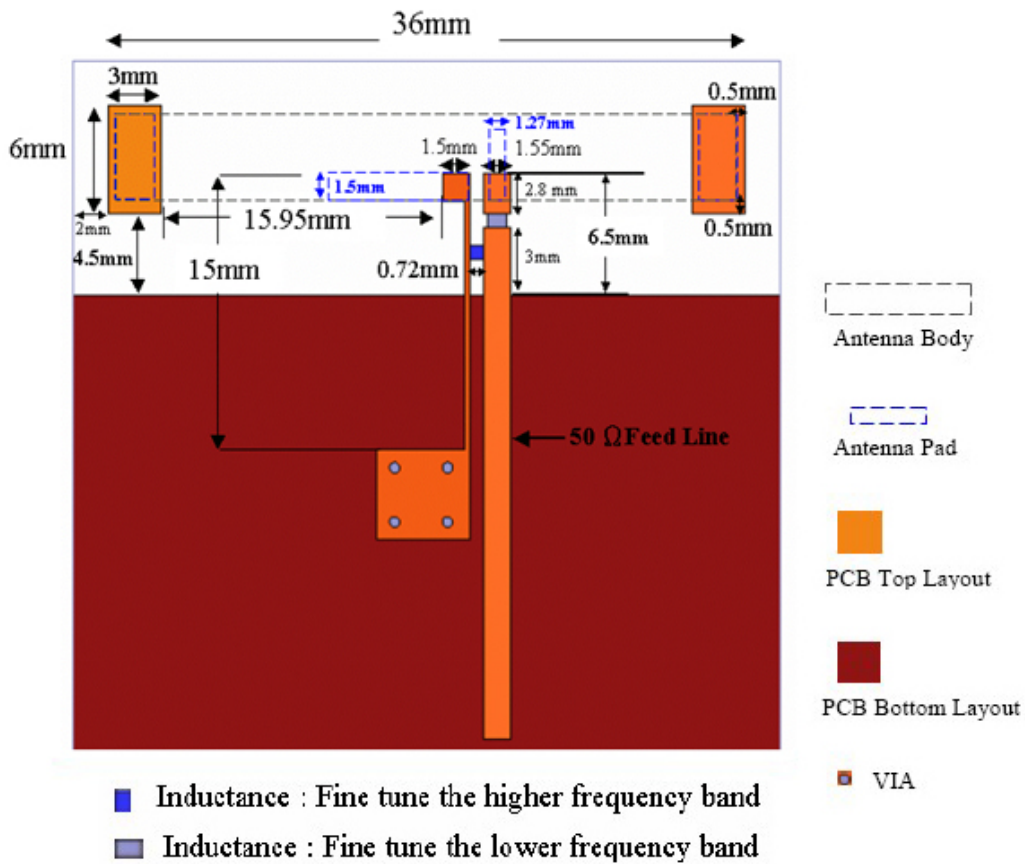
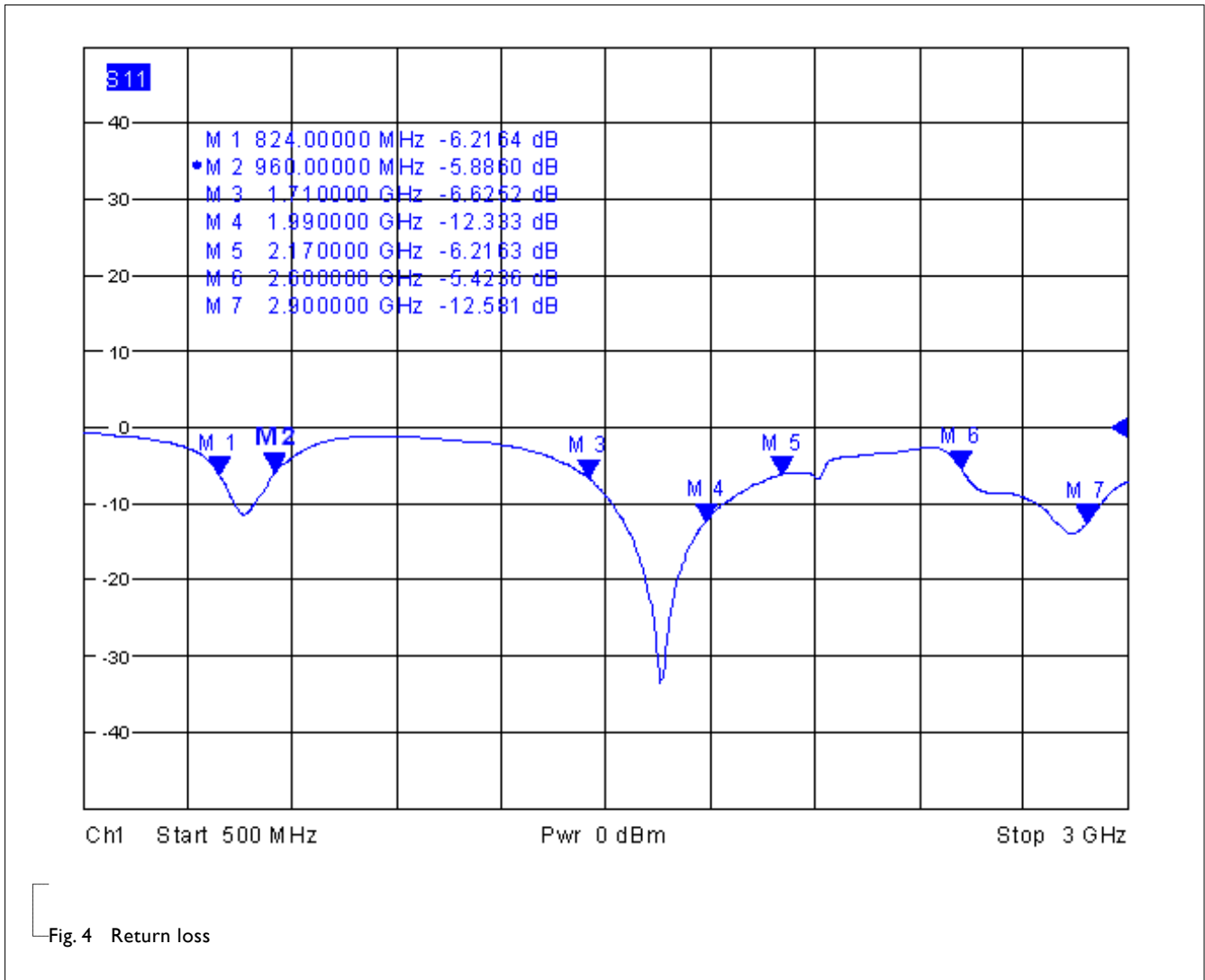


Fig. 3 Details of soldering Pad

ELECTRICAL PERFORMANCES



REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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Version 0	Mar. 04, 2015	-	New data sheet for SMD type antenna, WWAN application, 3505 series
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