## imall

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!



## Contact us

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# DATA SHEET

## **WIRELESS COMPONENTS**

Ceramic Antenna ANT4005B000RWHEXS LTE-BAND

LTE-BAND 4005 Series



YAGEO Phícomp

WIRELESS COMPONENTS

Ceramic Antenna

#### 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	4005	В	000	R	WHEXS
(1)	(2)	(3)	(4)	(5)	(6)

(1)	
(1)	PRODUCT

ANT = Antenna

#### (2) SIZE

4005 = 40 × 5 mm

(3) ANTENNA TYPE

B=Bulk Antenna

#### (4) SERIAL NO.

000

#### (5) PACKING STYLE

```
R = Reel
```

#### (6) WORKING FREQUENCY

WHEX=0.698~ 0.96 / 1.71~2.69 GHz

#### PHYCOMP CTC

CAN439144400HEX1K

12NC

439144400HEX



WIRELESS COMPONENTS

Ceramic Antenna

#### **SPECIFICATION**

Table I

DESCRIPTION	VALUE
Working Frequency	698~960 / 1710~2690 MHz
Bandwidth	260 / 980 MHz (Тур.)
VSWR	3.0 dB max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.2 / 4.0 dBi(Typ.)
Impedance	<b>50</b> Ω
Operating Temperature	- 40~105 °C
Maximum Power	I W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 5sec.

#### NOTE

I. The specification is defined on Yageo evaluation board

#### **DIMENSIONS**

#### OUTLINES

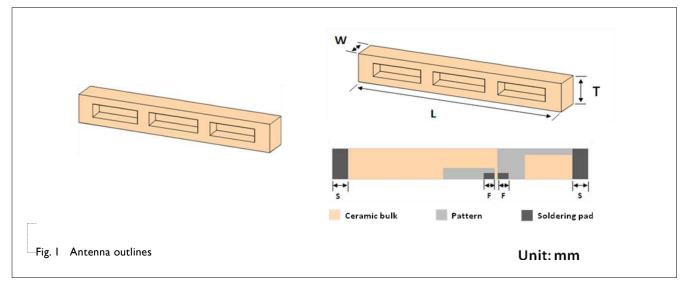


Table 2	Mechanical	Dimension
MARK		DIMENSION
L (mm)		40.0 ±0.5
W (mm)		5.0 ±0.3
T (mm)		6.00 ±0.3
S (mm)		2.4 ±0.2
F (mm)		1.6 ±0.2

Table 3 Termination configura	tion
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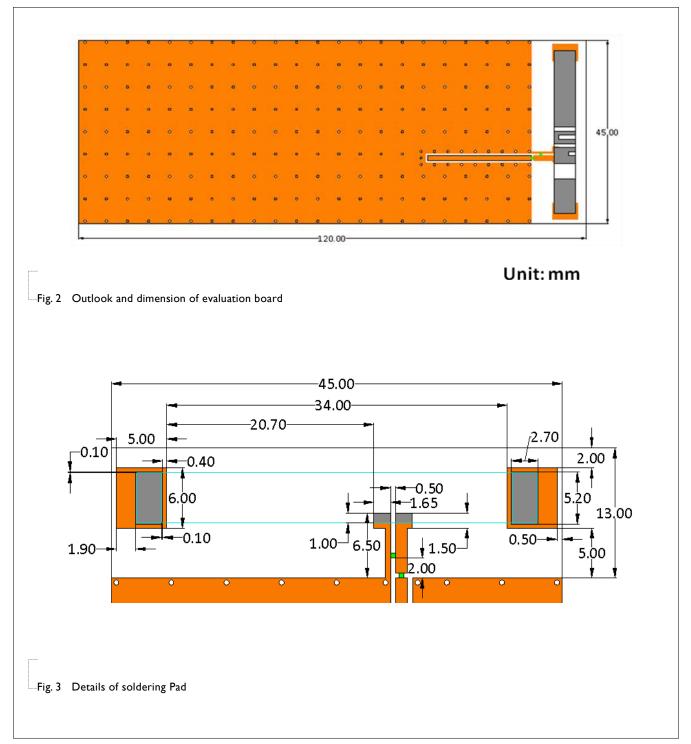
MARK	FUNCTION		
F	Feeding Point		
S	Soldering Point		



WIRELESS COMPONENTS

Ceramic Antenna

#### REFERENCE DESIGN OF EVALUATION BOARD

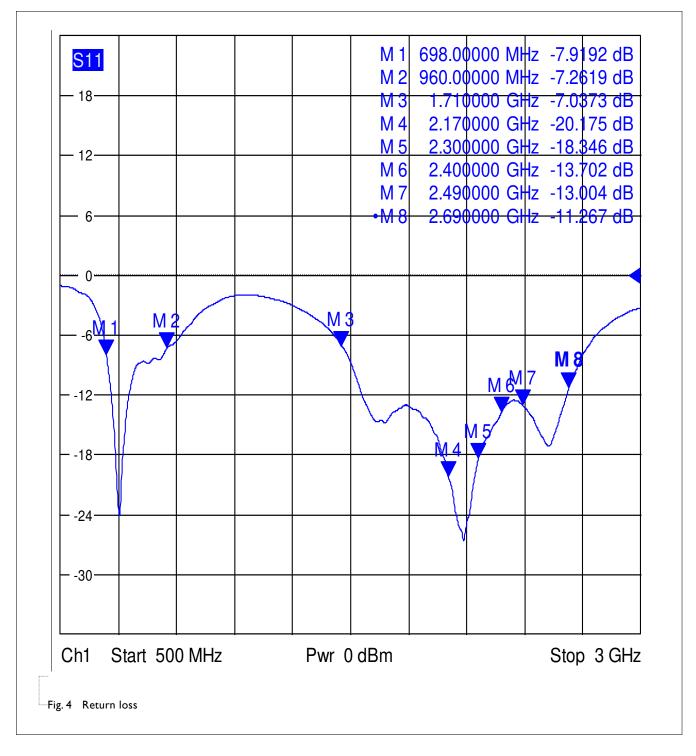


WIRELESS COMPONENTS

Ceramic Antenna

 $\frac{5}{10}$ 

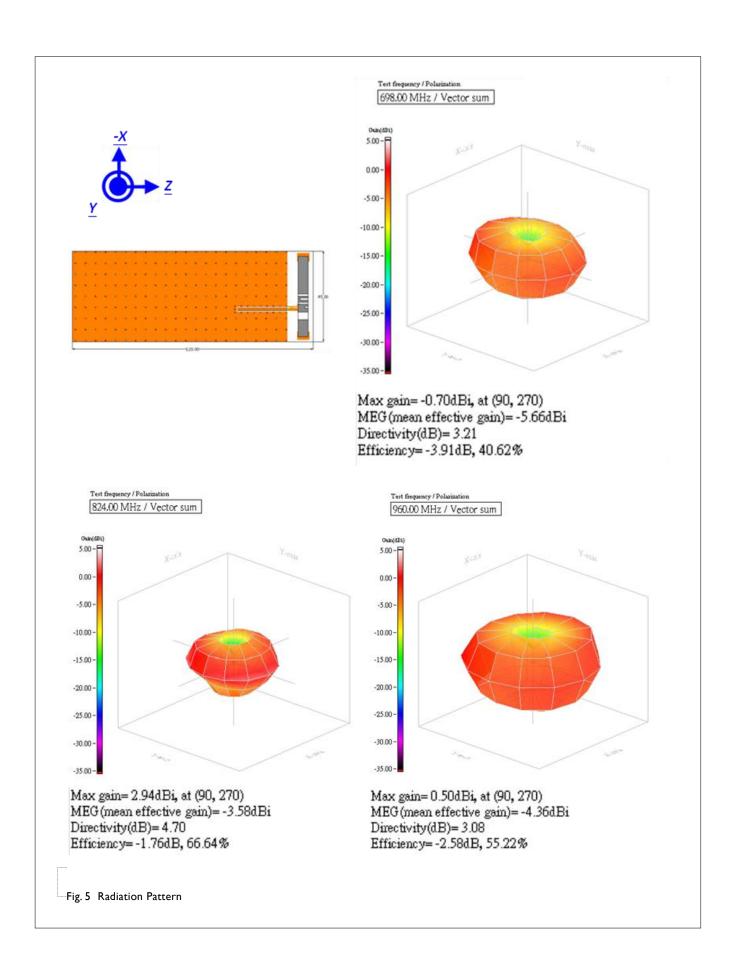
#### ELECTRICAL PERFORMANCES





WIRELESS COMPONENTS

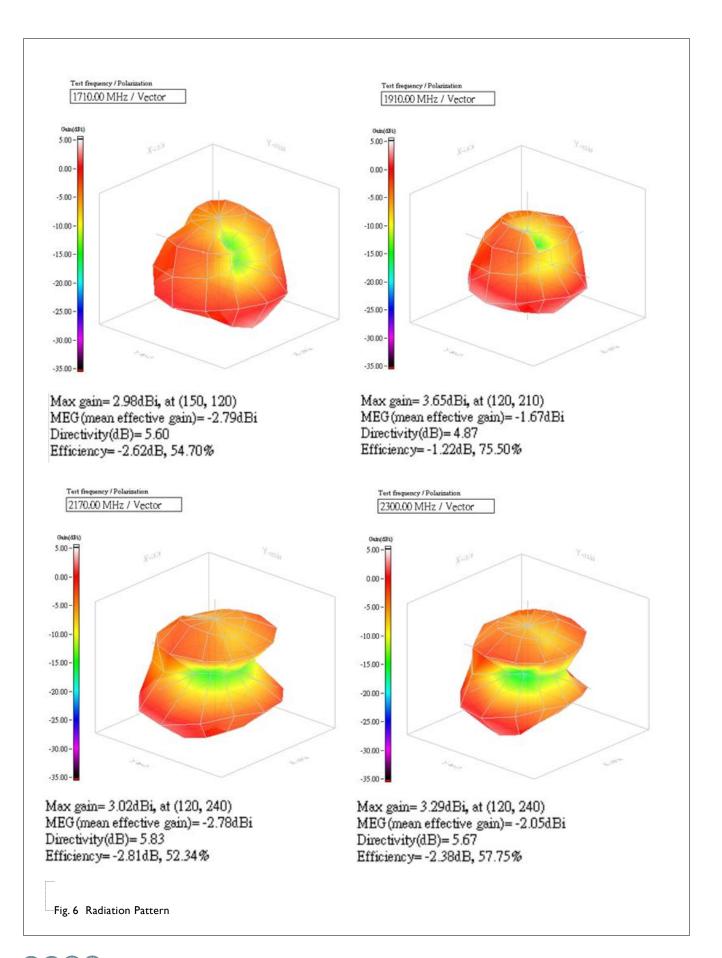
Ceramic Antenna





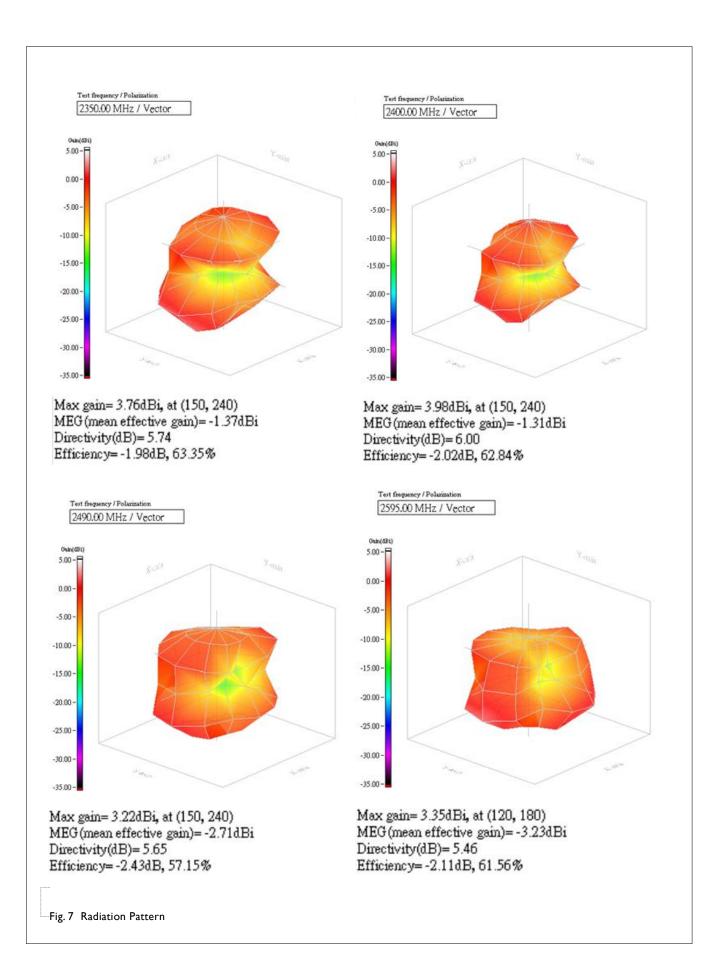
WIRELESS COMPONENTS

Ceramic Antenna



WIRELESS COMPONENTS

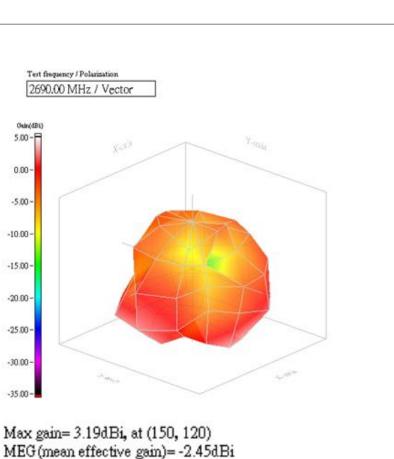
Ceramic Antenna





WIRELESS COMPONENTS

Ceramic Antenna



MEG (mean effective gain)= -2.45dBi Directivity(dB)= 5.04 Efficiency= -1.85dB, 65.27%

Fig. 8 Radiation Pattern



YAGEC	<b>Phicom</b>	р				Product specification 10
	WIRELES	S COMPONENTS	Ce	eramic Antenna		10
REVISION	<u>HISTORY</u>					
REVISION	DATE	CHANGE NOTIFICA	TION	DESCRIPTION		
Version 0	Jun. 02, 2015	-		New data sheet for SMD type antenna, WHEXS application, 4005 series		

