



ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

CUSTOMER : _____

CUSTOMER P/N : _____

OUR DWG No : _____

QUANTITY : _____ **Pcs.** **DATE :** **2021/8/19**

ITEM : **BTCA001608040025GP**

SPECIFICATION	
ACCEPTED BY:	
COMPONENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
APPROVED	
REJECTED	

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DRAWN BY Fchou	CHECKED BY Carl	APPROVED BY Yen
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Chip Series Specification

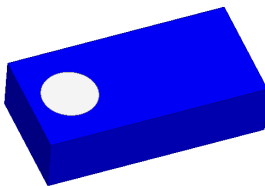
1 Scope: This specification applies to Chip series antenna

2 Part Numbering: Product Identification

B	TCA	□□	1608	□□□□	□□□	P
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1)Grade**
- (2)Product Series**
- (3)Control Code**
- (4)Dimensions**
- (5)Internal Code**
- (6)Frequency**
- (7)Version Code**

3 Marking:



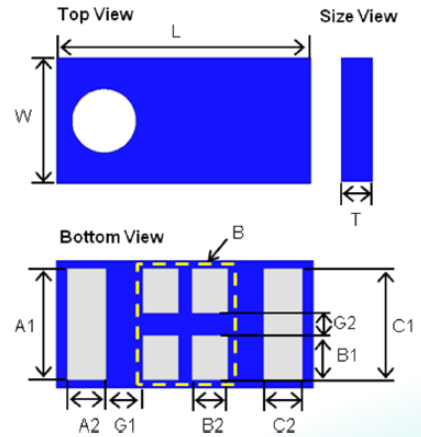
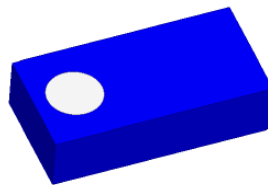
4 Electrical Characteristics:

Working Frequency	2.45G / 5.5G Hz
Bandwidth	120 / 900M Hz(Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.11 / 3.43 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.

Chip Series Specification

5 Configuration and Dimensions:

	Dimension
L (mm)	1.60 ±0.15
W (mm)	0.80 ±0.15
T (mm)	0.40 ±0.15
A1(mm)	0.70 ±0.15
A2(mm)	0.25 ±0.15
B1(mm)	0.30 ±0.15
B2(mm)	0.25 ±0.15
C1(mm)	0.70 ±0.15
C2(mm)	0.25 ±0.15
G1(mm)	0.20 ±0.05
G2(mm)	0.10 ±0.05

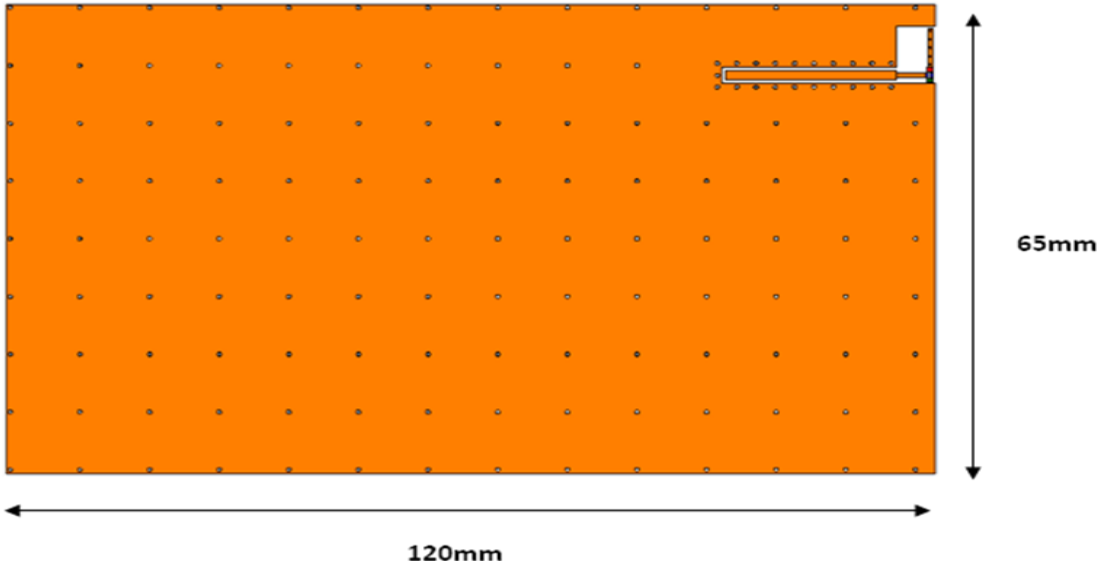


Terminal name	Function
B	Feeding Point
A1,A2	Soldering Point for 2.4GHz
C1,C2	Soldering Point for 5GHz



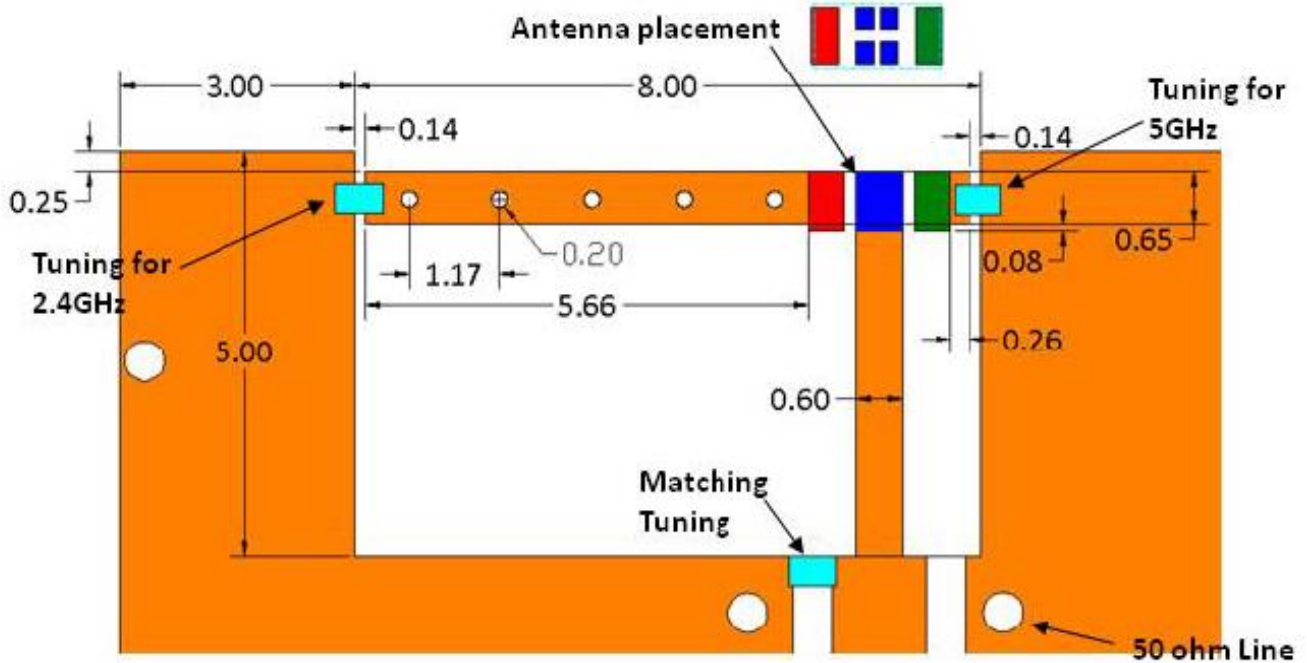
Chip Series Specification

6 Reference design of evaluation board:

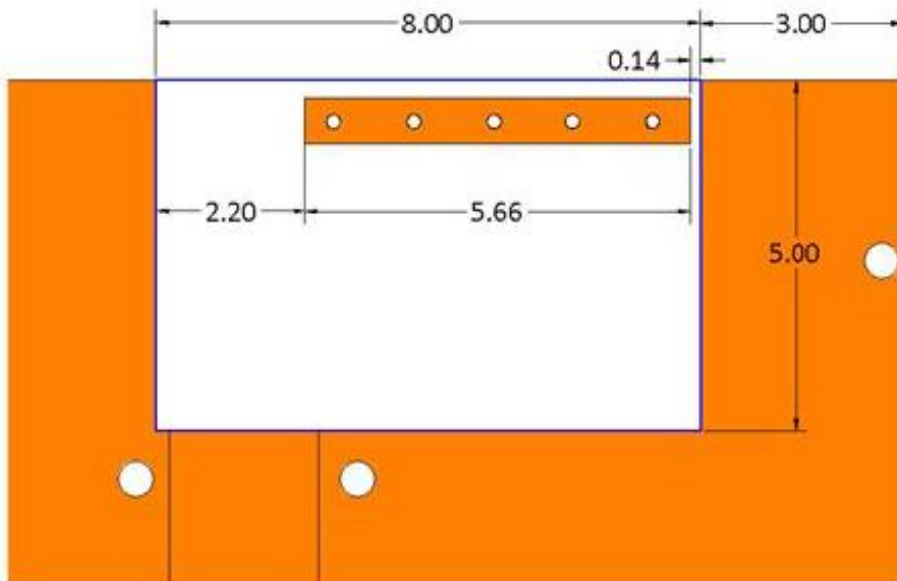


Chip Series Specification

6 Reference design of evaluation board:



Top Layer

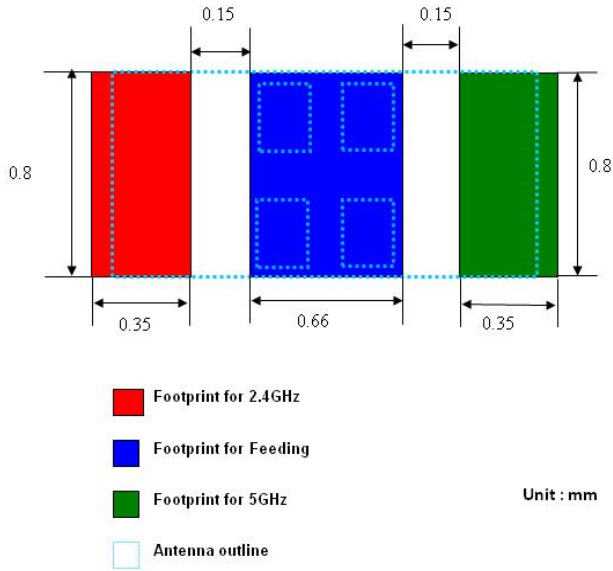


Bottom Layer

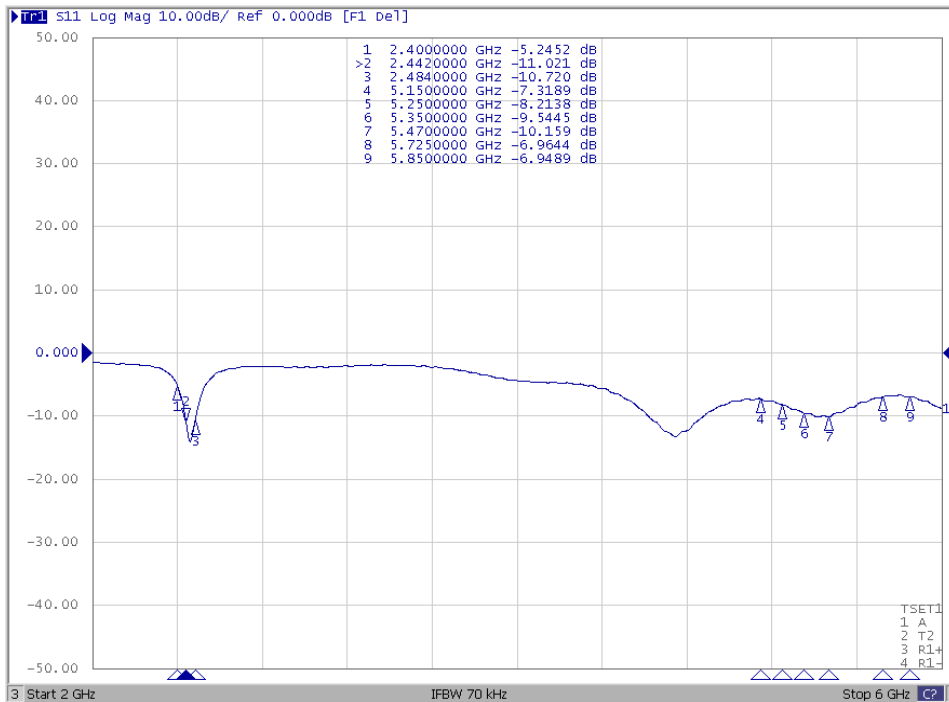
Unit : mm

Chip Series Specification

6 Reference design of evaluation board :



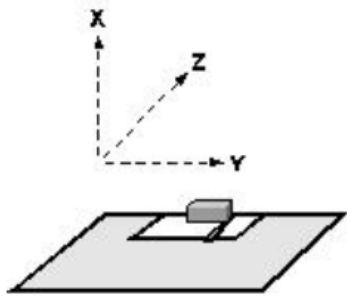
Return Loss



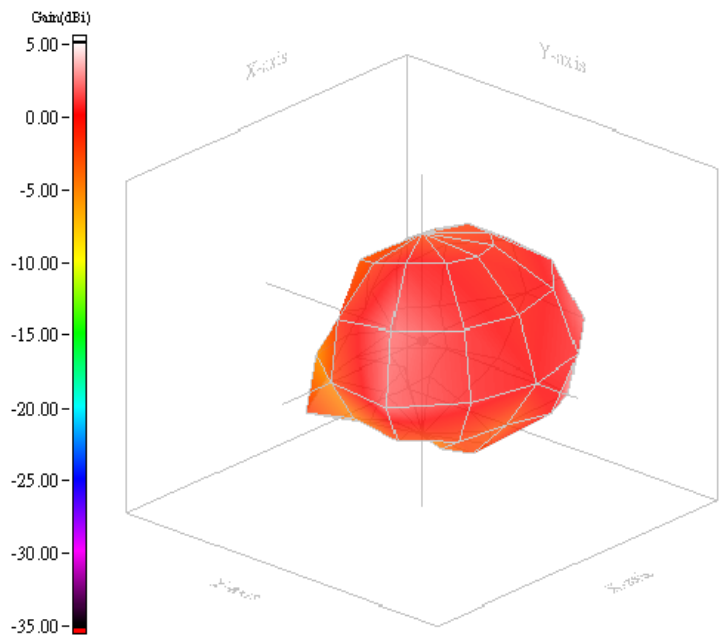
Chip Series Specification

7 ELECTRICAL PERFORMANCES:

Model name	1608	Test mode	DB
Test frequency / Polarization	2450.00 MHz / Vector	Test date	2014/11/6



Evaluation board and XYZ direction



Max gain= 3.11dBi, at (120, 150)
MEG(mean effective gain)=-2.69dBi
Directivity(dB)= 5.31
Efficiency= -2.20dB, 60.28%



Chip Series Specification

7 ELECTRICAL PERFORMANCES:

Model name

1608

Test mode

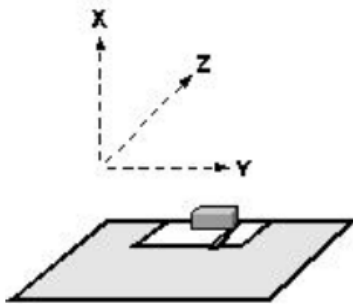
DB

Test frequency / Polarization

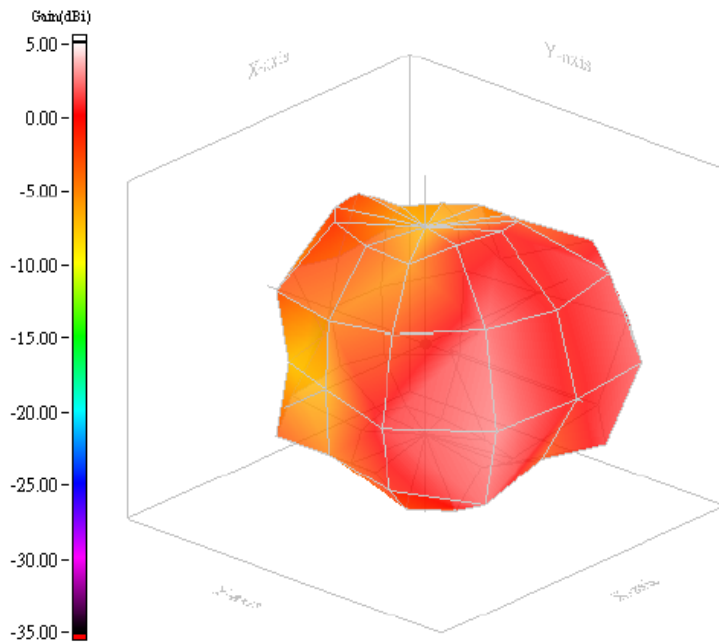
5470.00 MHz / Vector

Test date

2014/11/6



Evaluation board and XYZ direction



Max gain= 2.50dBi, at (90, 60)
MEG (mean effective gain)= -3.79dBi
Directivity(dB)= 5.07
Efficiency= -2.57dB, 55.28%