



ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer :

Customer P/N :

Drawing No :

Quantity :

Pcs.

Date :

2020/11/10

Chilisin P/N :

BTPA00460725GC1A05

SPECIFICATION

ACCEPTED BY:

COMPONENT
ENGINEER

ELECTRICAL
ENGINEER

MECHANICAL
ENGINEER

APPROVED

REJECTED

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Drawn by

Checked by

Approved by

ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

Revisions

[illegible]



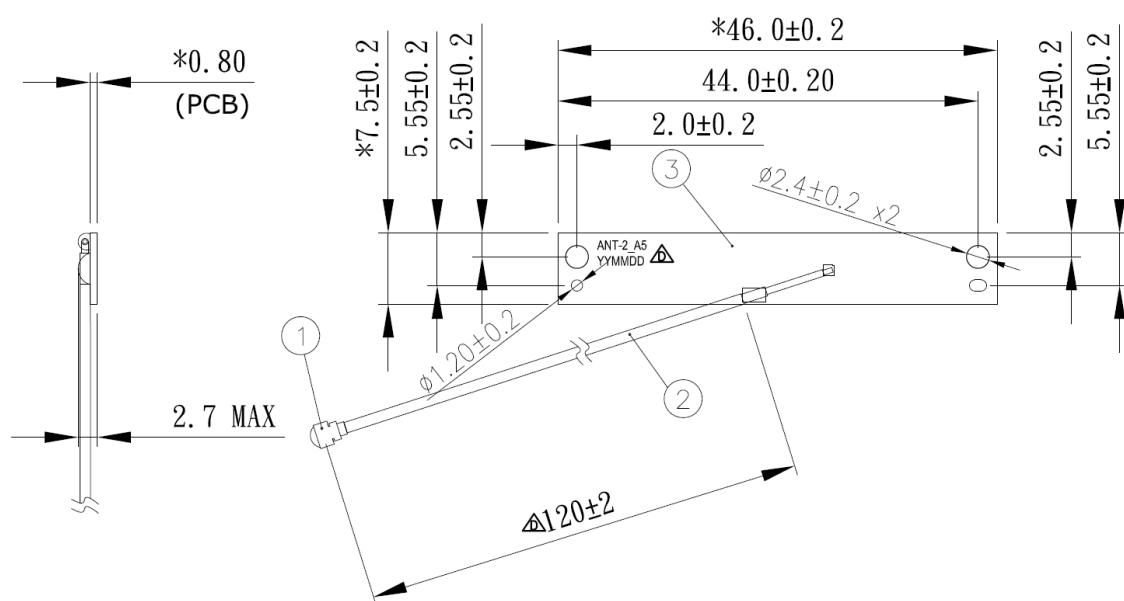
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Mechanical Specification

RoHS COMPLIANT



備註:

- 1.電氣特性必須100%測試以及標註 * 的尺寸須做重點檢驗(SPC)
- 2.此產品及其附屬包裝材料的均質成份須滿足無鹵管制要求:
Br<900ppm,Cl<900ppm ,Br+Cl<1500ppm

△	MODIFY_DRAWING	11/10/'20	ALLEN
△	MODIFY_CABLE_LENGTH_&_PATTERN	09/10/'20	ALLEN
△	MODIFY_CABLE_LENGTH	05/26/'20	ALLEN
△	NEW_DRAWING	04/30/'20	ALLEN
LTR	DESCRIPTION	DATE	REQ. BY

6			1	
5			1	
4			1	
3	PCB	FR4 46mm x 7.5mm x 0.8mm	1	
2	Cable	1.13MM COAXIAL CABLE(白色)	1	
1	Connector	I-PEX一代端子	1	
NO	DESCRIPTION	QTY	REMARK	

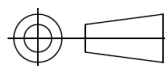
設計 DR.	核准 APPD.
ALLEN	TASON
2020/11/10	2020/11/10

版本說明	REVISION NOTE
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CHILISIN

容許公差	TOLERANCE
.XXX	±0.20
.XX	±0.35
.X	±0.50
X	±1.00
ANG	±5

品名
ASM, ANTENNA-2(左)
BTPA00460725GC1A05



單位 UNIT	比例 SCALE	張數 SHEET	版本 REV.
mm	1:1	1/1	D



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RF Specification

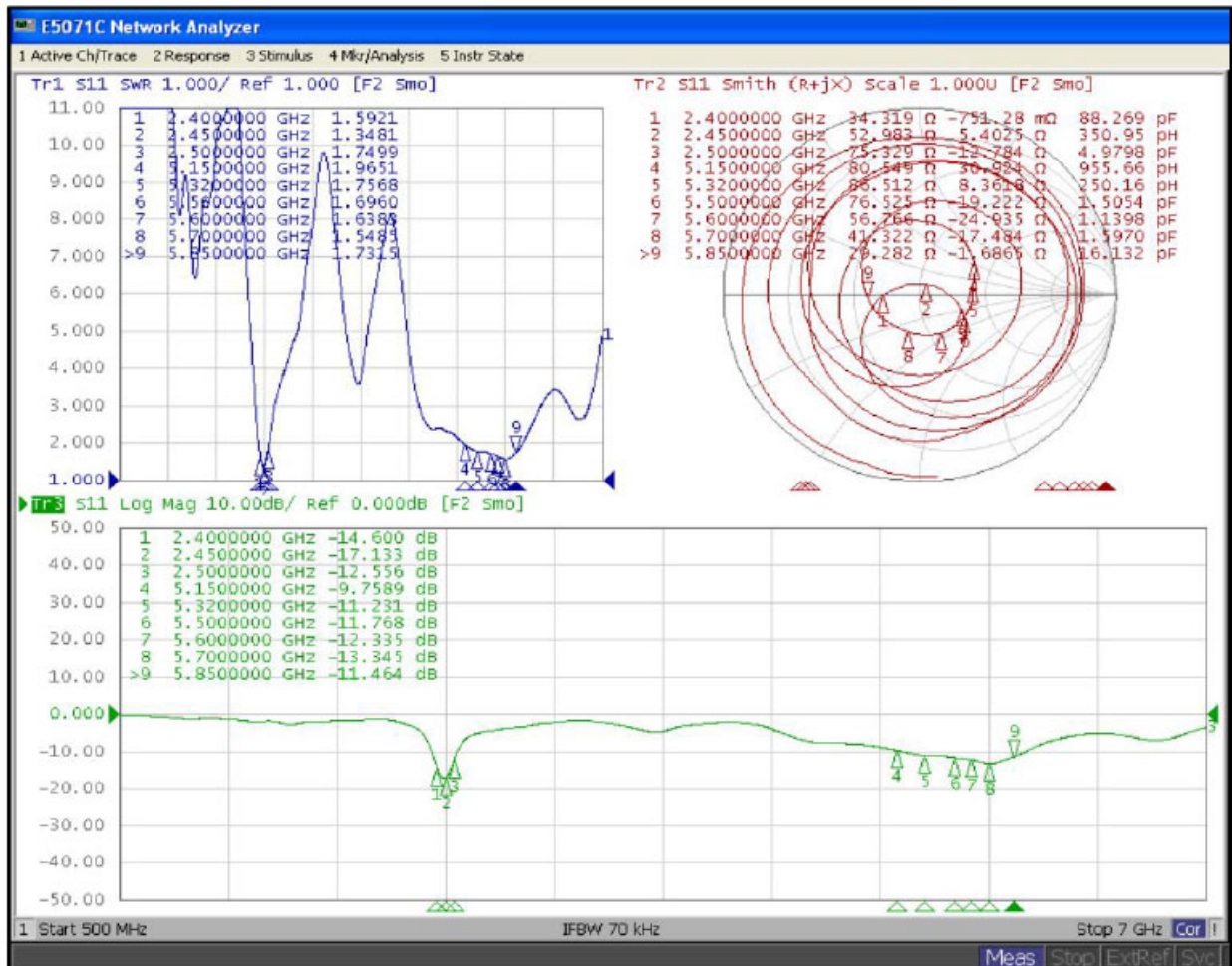
Electrical		
Item		Ant2
Test Environment		Free Space
Antenna Type		PF
Frequency Range		2400~2500MHz 5150~5850MHz
Returnloss		2400~2500MHz <-10 5150~5850MHz <-10
Polarization		Linear
Gain(Peak Gain)		<4.23
Efficiency		≥53%
Input Impedance		50 ohm



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Test Report

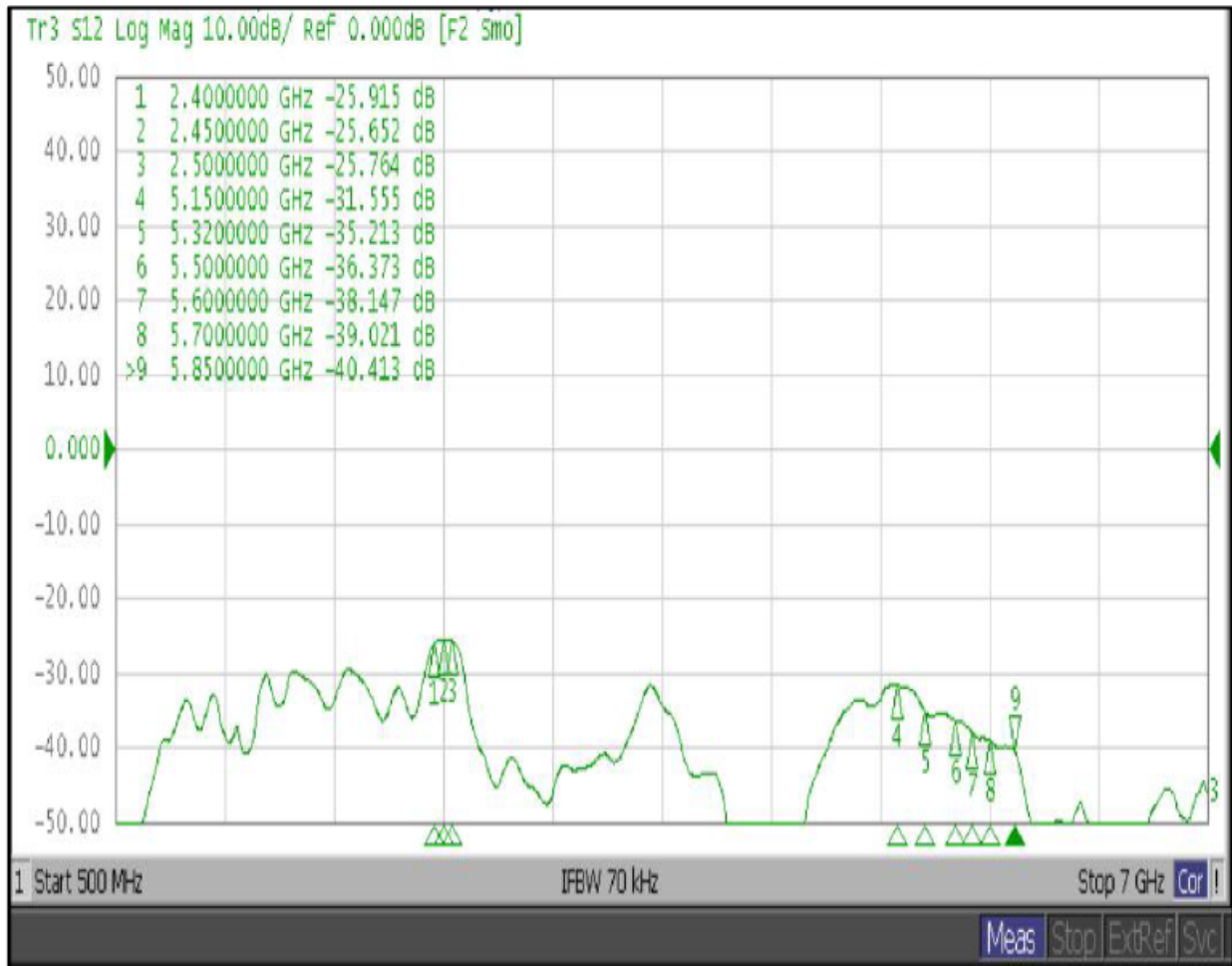
S-Parameter_Return Loss_Ant2





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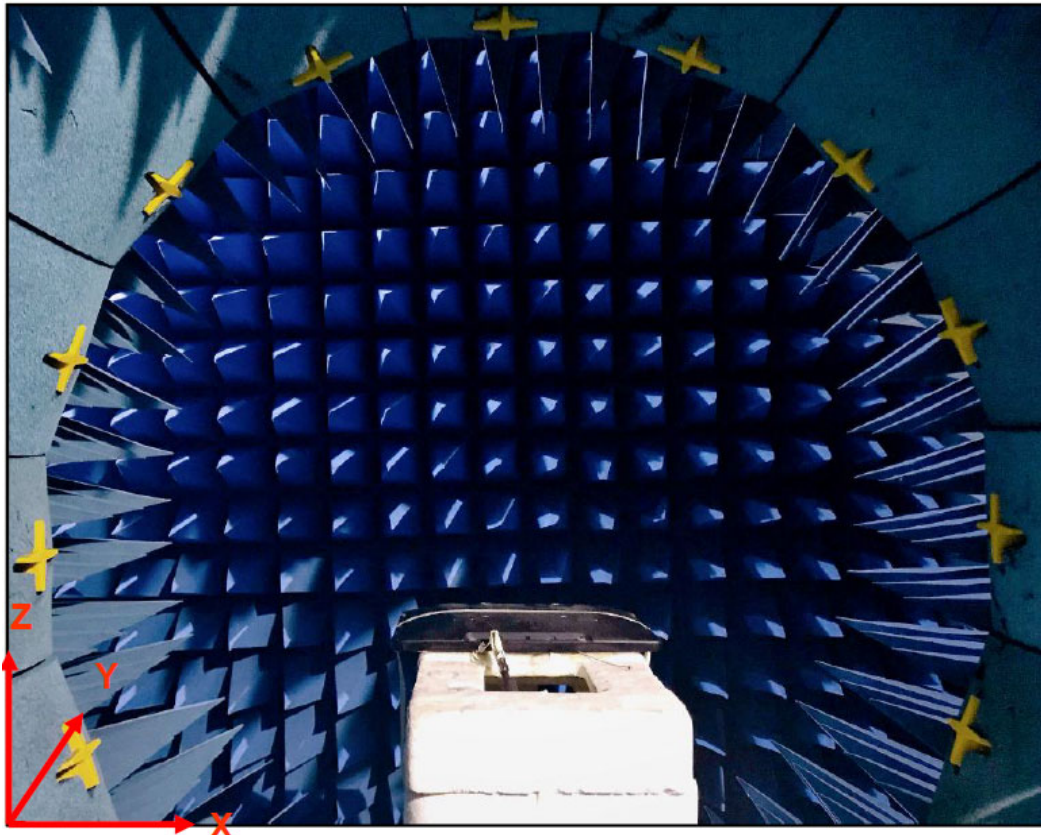
S- Parameter_Isolation





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3D Peak Gain & Efficiency List Table

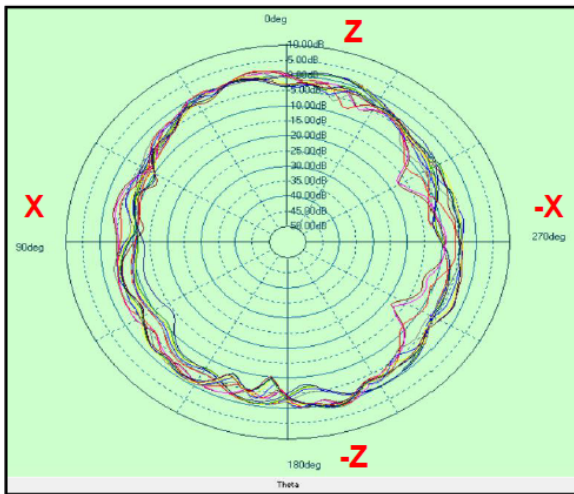


Ant2		
Frequency (MHz)	Efficiency	Total Gain(dBi)
2400	55	3.39
2412	56	3.38
2437	57	3.50
2450	56	3.53
2462	56	3.50
2500	53	3.13
5150	62	4.23
5180	61	4.20
5320	61	3.94
5500	62	3.71
5600	57	3.03
5700	60	3.21
5785	59	3.21
5805	57	2.88
5850	57	3.35



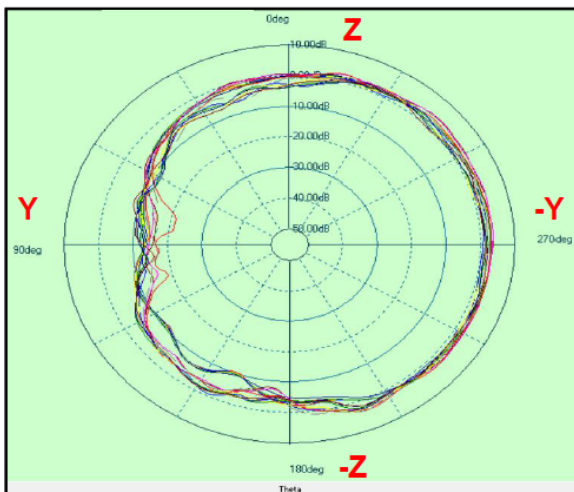
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2D Gain Pattern_Ant2 _ZX Cut(Phi=0)



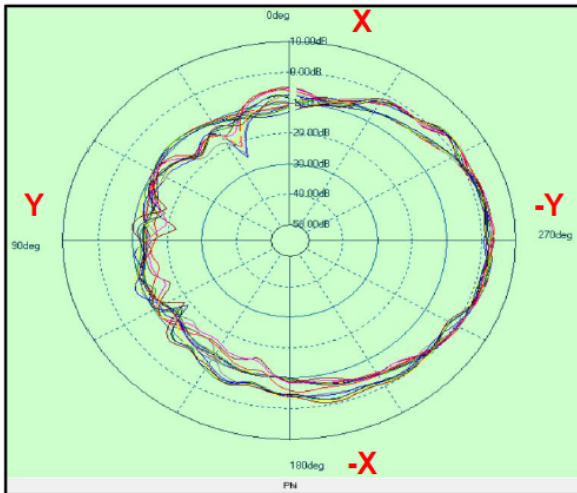
Layer	Max value	Min value	Average
2400(MHz)	1.08 dB	-13.13 dB	-4.44 dB
2450(MHz)	1.24 dB	-11.68 dB	-4.47 dB
2500(MHz)	1.41 dB	-14.36 dB	-4.52 dB
5150(MHz)	1.61 dB	-18.23 dB	-4.42 dB
5320(MHz)	1.84 dB	-12.58 dB	-4.24 dB
5500(MHz)	1.53 dB	-9.11 dB	-3.58 dB
5785(MHz)	1.08 dB	-10.71 dB	-3.91 dB
5850(MHz)	0.24 dB	-12.87 dB	-4.26 dB

2D Gain Pattern_Ant2 _ZY Cut(Phi=90)



Layer	Max value	Min value	Average
2400(MHz)	3.09 dB	-14.79 dB	-1.52 dB
2450(MHz)	3.05 dB	-13.67 dB	-1.48 dB
2500(MHz)	2.23 dB	-13.05 dB	-2.05 dB
5150(MHz)	4.22 dB	-16.29 dB	-0.72 dB
5320(MHz)	3.34 dB	-21.61 dB	-1.06 dB
5500(MHz)	3.41 dB	-17.55 dB	-1.55 dB
5785(MHz)	2.27 dB	-13.76 dB	-1.98 dB
5850(MHz)	2.34 dB	-15.93 dB	-2.06 dB

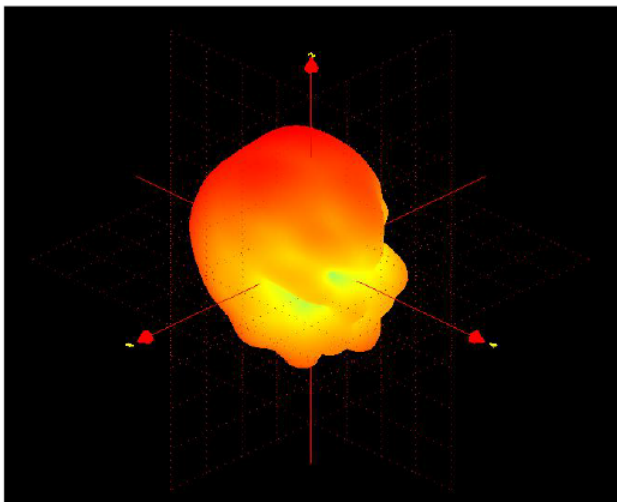
2D Gain Pattern_Ant2 _XY Cut(Theta=0)



Layer	Max value	Min value	Average
2400(MHz)	3.38 dB	-14.07 dB	-5.50 dB
2450(MHz)	3.18 dB	-15.00 dB	-5.51 dB
2500(MHz)	2.48 dB	-15.05 dB	-5.76 dB
5150(MHz)	3.58 dB	-22.48 dB	-5.13 dB
5320(MHz)	3.73 dB	-21.54 dB	-4.87 dB
5500(MHz)	2.99 dB	-24.21 dB	-4.54 dB
5785(MHz)	2.41 dB	-17.40 dB	-4.45 dB
5850(MHz)	2.62 dB	-18.78 dB	-4.42 dB

3D Gain Pattern_Ant2

2450MHz



5500MHz

