



ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer :

Customer P/N :

Drawing No :

Quantity :

Pcs.

Date :

2020/08/11

Chilisin P/N :

BTPA00460725GC1A04

SPECIFICATION

ACCEPTED BY:

COMPONENT
ENGINEER

ELECTRICAL
ENGINEER

MECHANICAL
ENGINEER

APPROVED

REJECTED

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Drawn by

Checked by

Approved by

Revisions

[illegible]



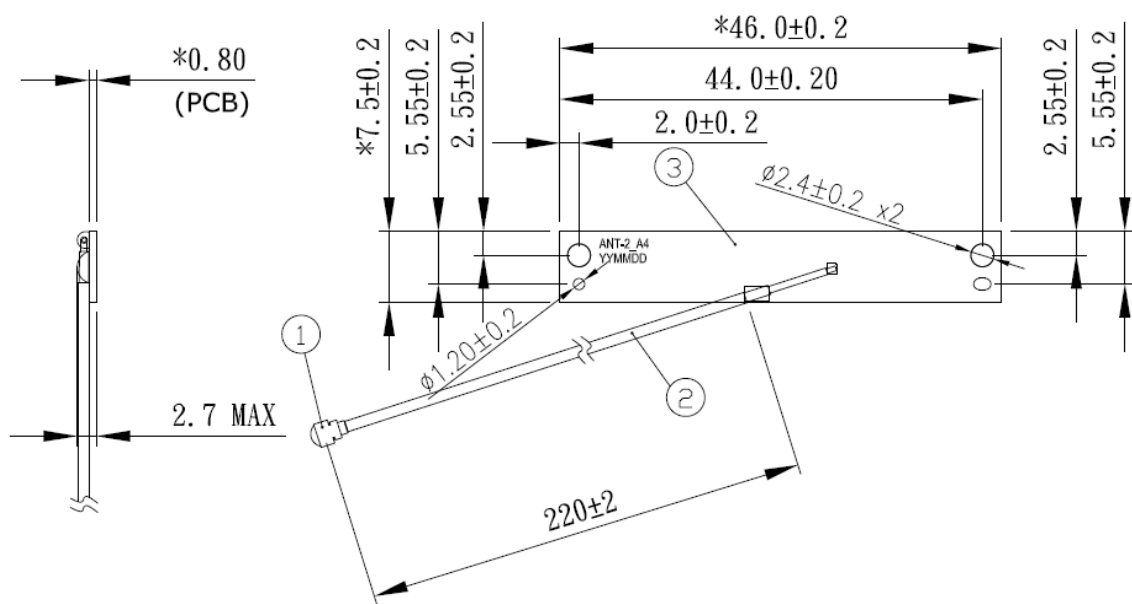
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Mechanical Specification

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_PATTERN	08/11/20	ALLEN
	MODIFY_CABLE_LENGTH	07/27/20	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 (黑色)	1	
1	Connector	I-PEX一代端子	1	
NO	DESCRIPTION		QTY	REMARK

設計 DR.		核准 APPD.		容許公差 TOLERANCE		品名	
ALLEN		TASON		.XXX ±0.20		ASM, ANTENNA-2	
2020/08/11		2020/08/11		.XX ±0.35		BTPA00460725GC1A04	
版本說明		REVISION NOTE		.X ±0.50			
				X ±1.00			
CHILISIN				ANG ±5		單位 UNIT	
						比例 SCALE	
						張數 SHEET	
						版本 REV.	
						mm 1:1 1/1 C	



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RF Specification

Electrical		
Item		Ant2
Test Environment	]	Free Space
Antenna Type		Dipole
Frequency Range		2400~2500MHz 5150~5850MHz
VSWR		<2
Polarization		Linear
Gain(Peak Gain)		2G<3.53 5G<3.50
Efficiency	—	2G≥55% 5G≥40%
Input Impedance		50 ohm



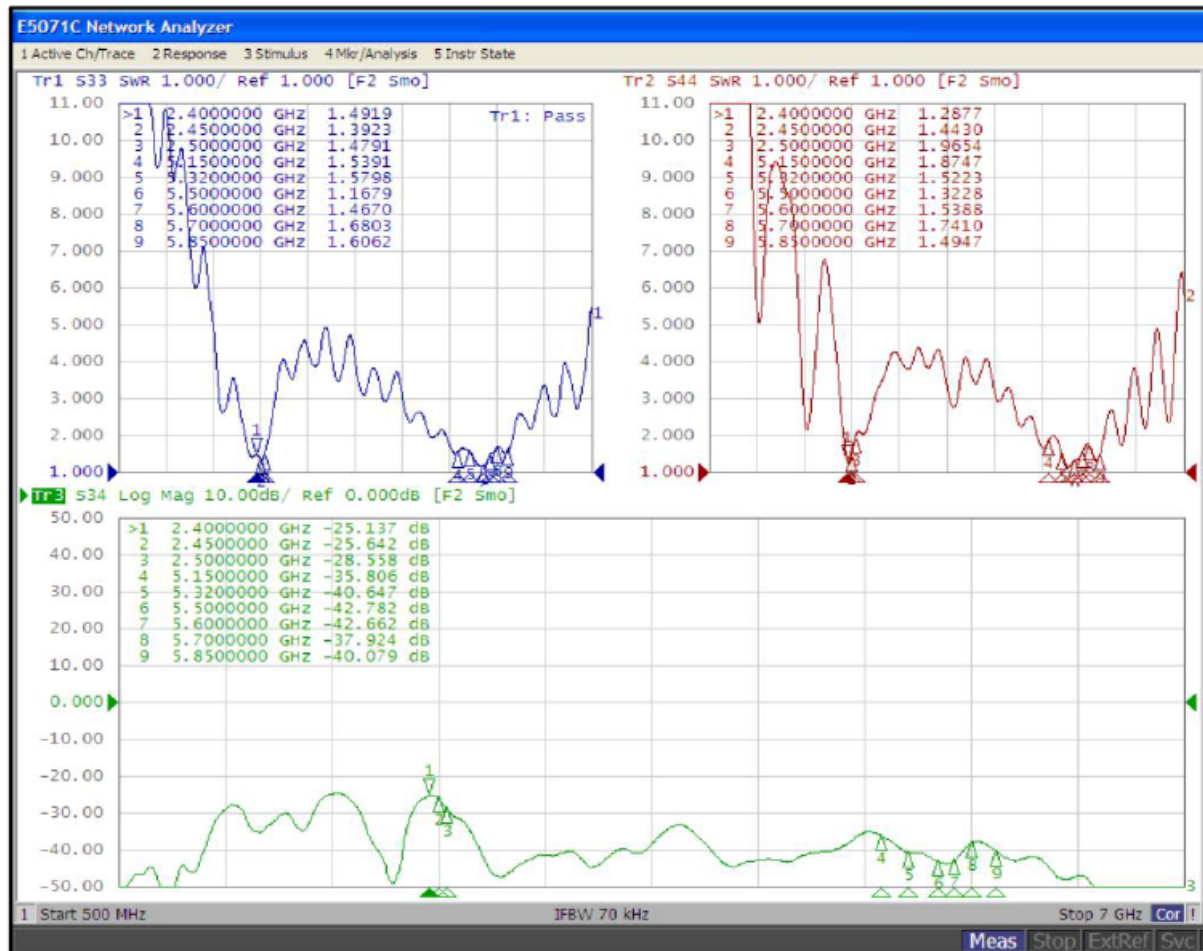
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Test Report

S- Parameter_ Return Loss_Ant2

S33: Ant_1

S44: Ant_2

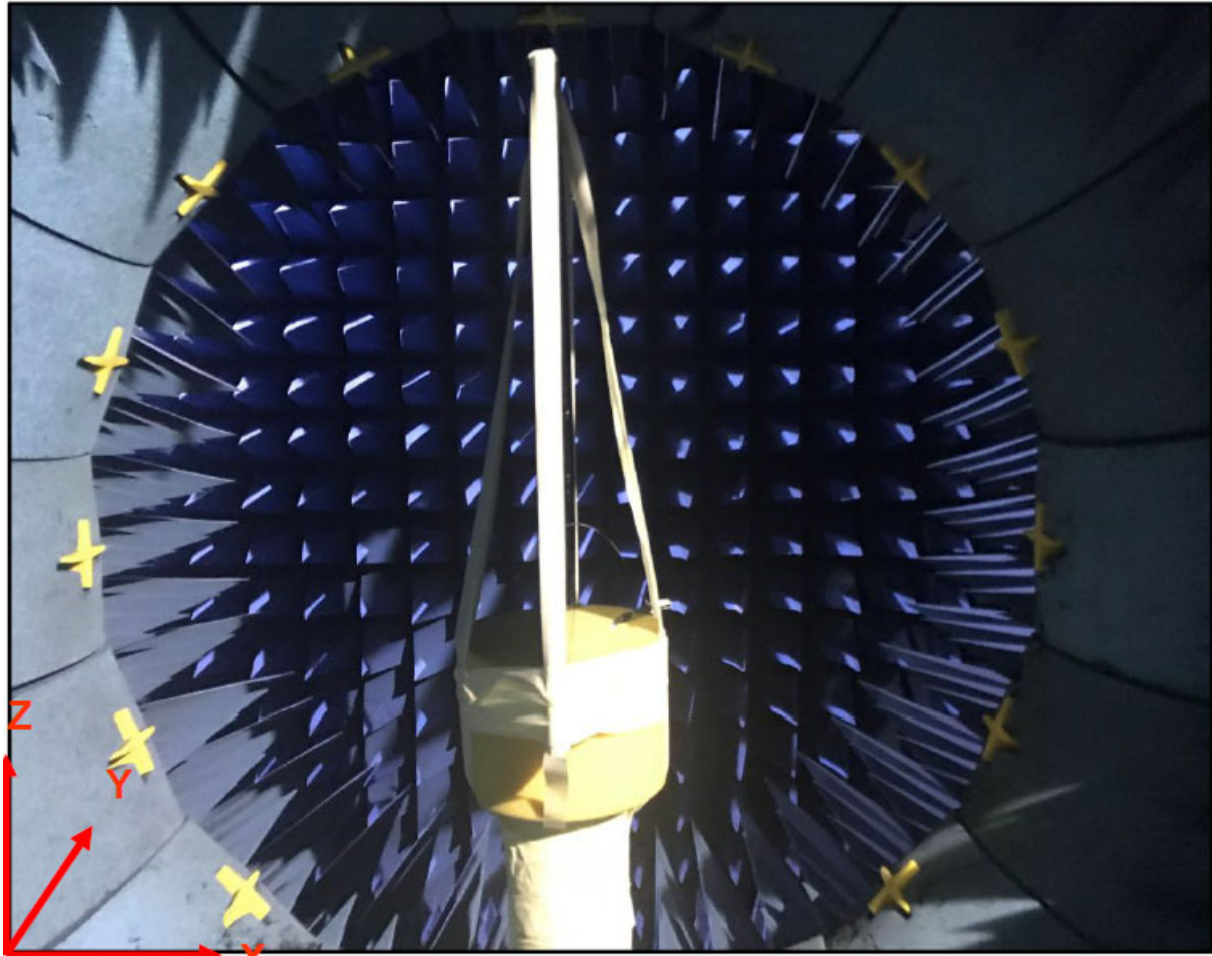


S34: Isolation



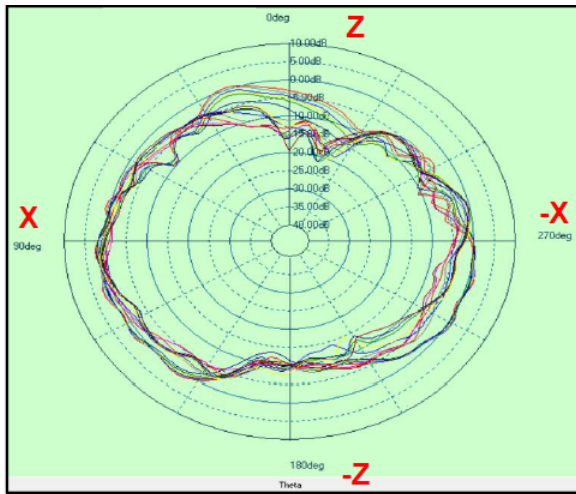
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3D Peak Gain & Efficiency List Table



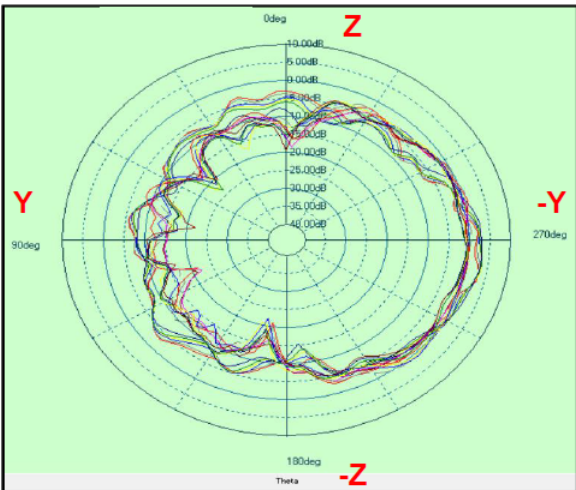
Ant2		
Frequency (MHz)	Efficiency (%)	Total Gain (dBi)
2400	57	3.16
2450	56	3.48
2500	58	3.53
5150	40	2.49
5320	45	2.92
5500	50	3.50
5600	50	3.44
5700	48	3.47
5850	43	2.70

2D Gain Pattern_Ant2 _ZX Cut(Phi=0)



Layer	Max value	Min value	Average
2400(MHz)	2.60 dB	-11.02 dB	-2.61 dB
2450(MHz)	2.16 dB	-12.41 dB	-3.37 dB
2500(MHz)	1.82 dB	-14.70 dB	-3.80 dB
5150(MHz)	0.35 dB	-16.65 dB	-5.78 dB
5320(MHz)	0.67 dB	-19.40 dB	-5.33 dB
5500(MHz)	1.77 dB	-17.56 dB	-4.59 dB
5700(MHz)	1.66 dB	-20.52 dB	-4.69 dB
5850(MHz)	1.08 dB	-19.69 dB	-5.19 dB

2D Gain Pattern_Ant2 _ZY Cut(Phi=90)

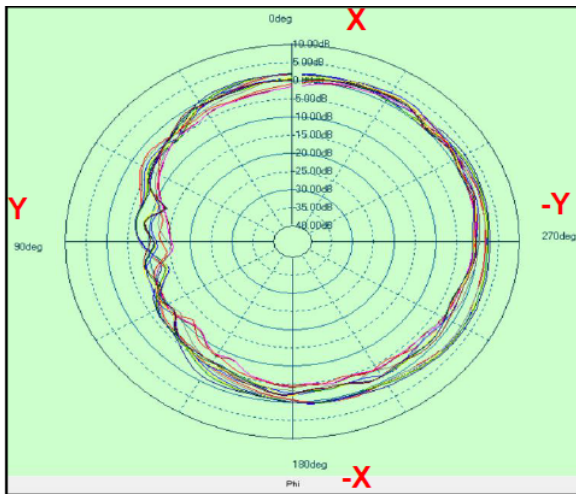


Layer	Max value	Min value	Average
2400(MHz)	3.13 dB	-11.90 dB	-4.70 dB
2450(MHz)	3.40 dB	-13.19 dB	-5.14 dB
2500(MHz)	3.19 dB	-15.40 dB	-5.49 dB
5150(MHz)	0.18 dB	-21.21 dB	-6.69 dB
5320(MHz)	0.77 dB	-21.66 dB	-6.11 dB
5500(MHz)	0.76 dB	-20.50 dB	-5.98 dB
5700(MHz)	0.38 dB	-22.88 dB	-6.27 dB
5850(MHz)	-0.05 dB	-22.00 dB	-7.01 dB



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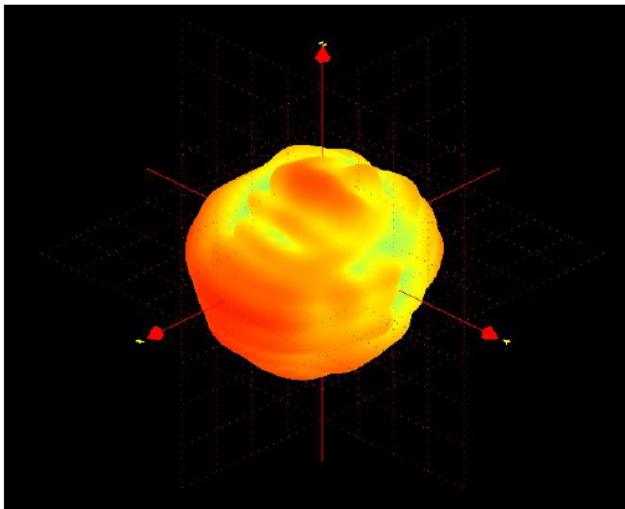
2D Gain Pattern_Ant2 _XY Cut(Theta=0)



Layer	Max value	Min value	Average
2400(MHz)	2.34 dB	-13.24 dB	-0.93 dB
2450(MHz)	2.84 dB	-13.70 dB	-0.67 dB
2500(MHz)	3.42 dB	-12.51 dB	-0.16 dB
5150(MHz)	1.42 dB	-15.57 dB	-3.76 dB
5320(MHz)	2.03 dB	-14.38 dB	-3.31 dB
5500(MHz)	3.09 dB	-15.44 dB	-2.41 dB
5700(MHz)	2.58 dB	-11.64 dB	-2.27 dB
5850(MHz)	2.21 dB	-12.83 dB	-2.27 dB

3D Gain Pattern_Ant2

2450MHz



5500MHz

