



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



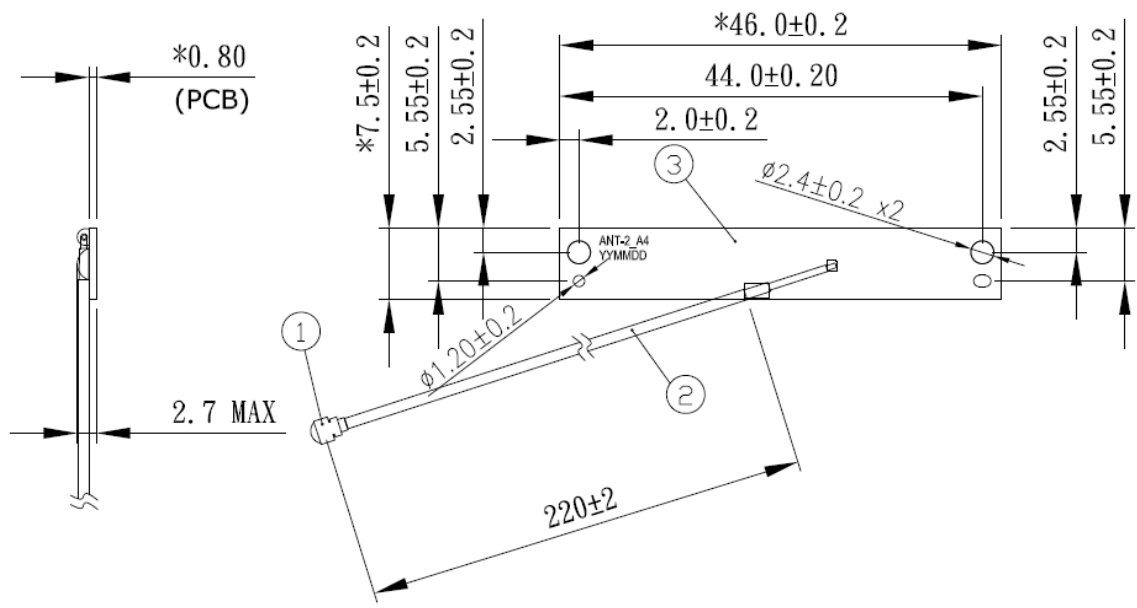
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Mechanical Specification

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

△	DESCRIPTION	DATE	REQ. BY
△	MODIFY_PATTERN	08/11/20	ALLEN
△	MODIFY_CABLE_LENGTH	07/27/20	ALLEN
△	NEW_DRAWING	04/30/20	ALLEN

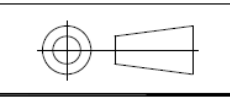
NO	DESCRIPTION	QTY	REMARK
6		1	
5		1	
4		1	
3	PCB	FR4 46mm x 7.5mm x 0.8mm	1
2	Cable	1.13MM COAXIAL CABLE (黑色)	1
1	Connector	I-PEX一代端子	1

設計 DR. ALLEN 2020/08/11	核准 APPD. TASON 2020/08/11
版本說明	REVISION NOTE

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

品名
ASM, ANTENNA-2
BTPA00460725GC1A04

CHILISIN



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



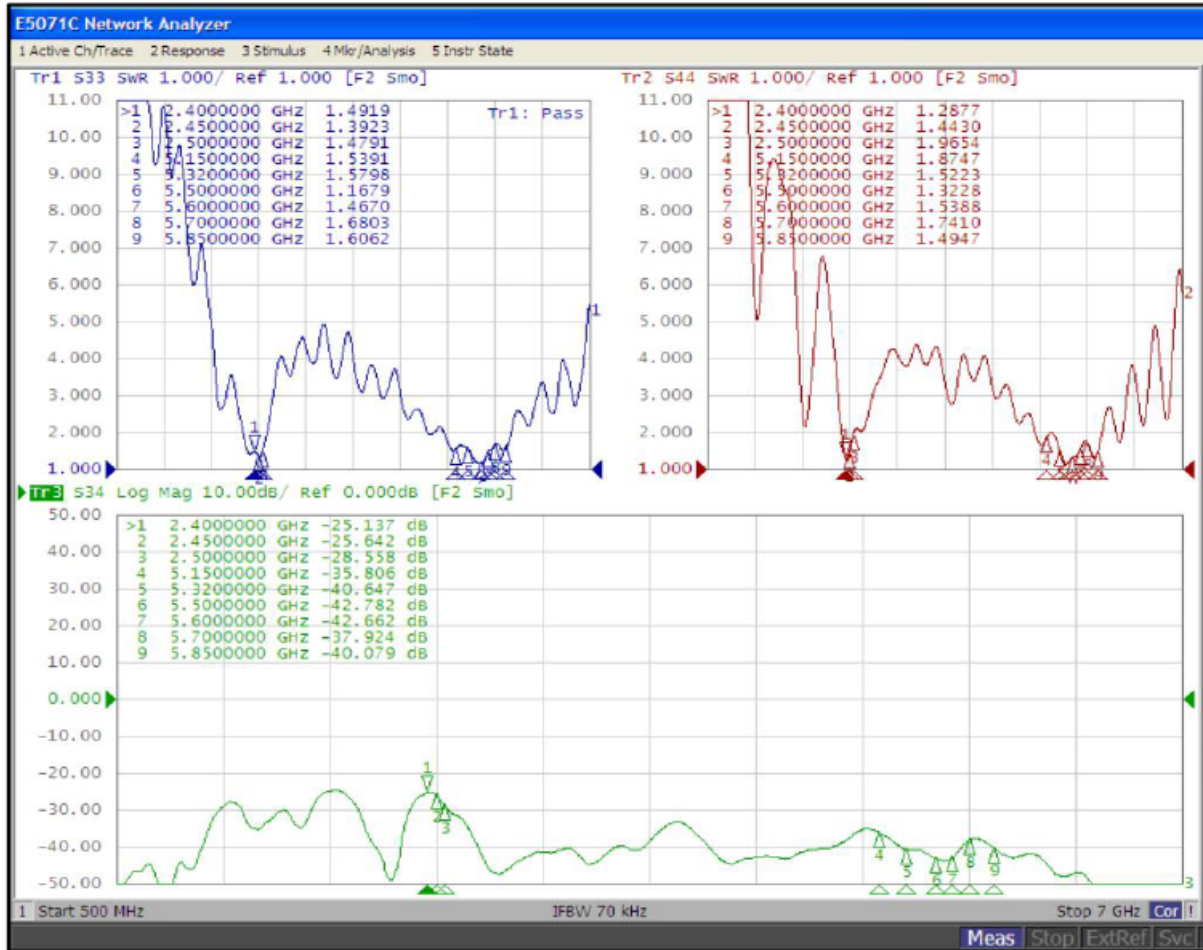
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Test Report

S- Parameter_ Return Loss_Ant2

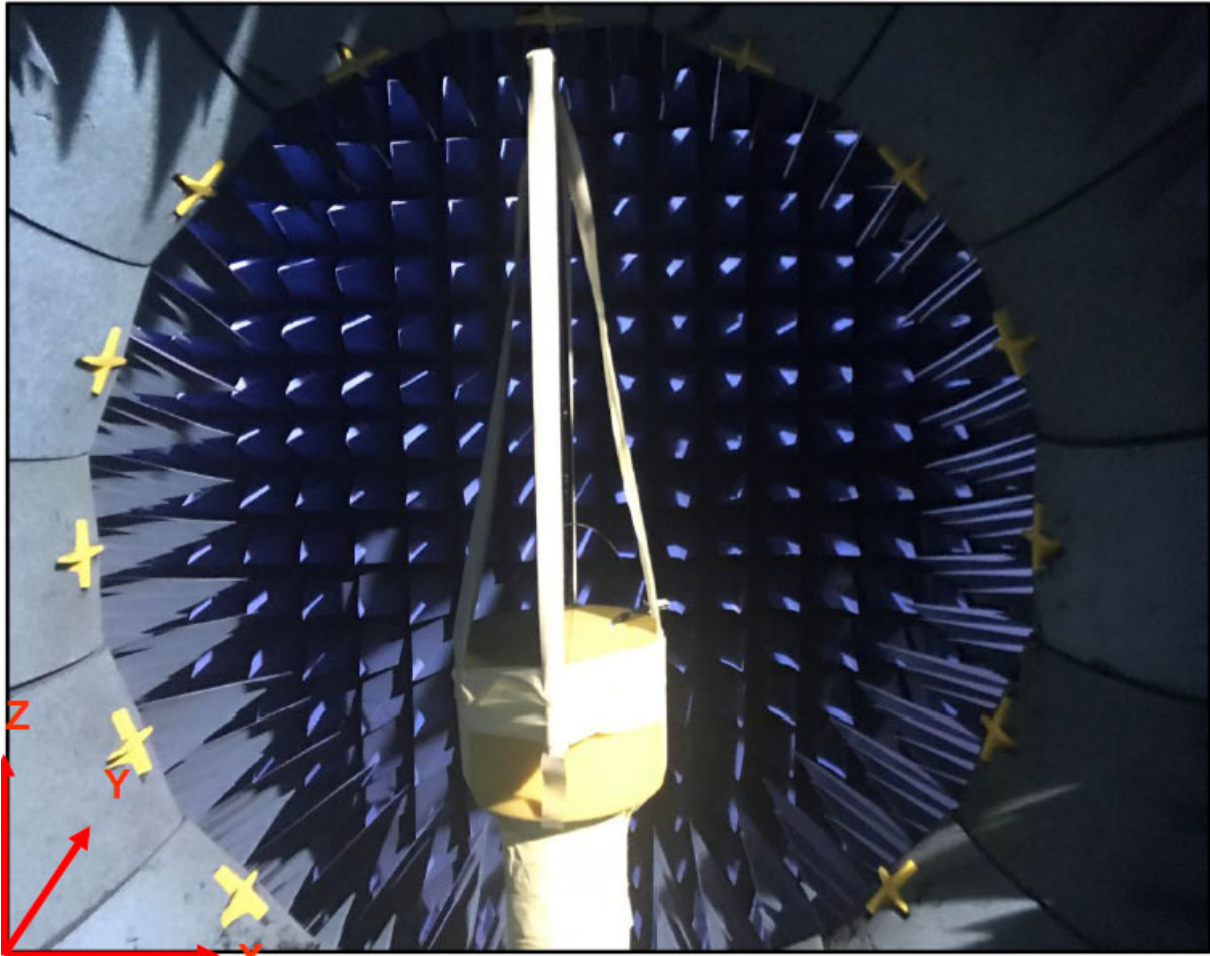
S33: Ant_1

S44: Ant_2



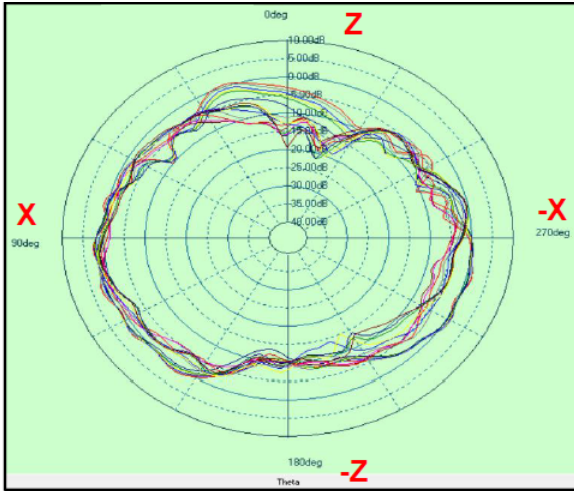
S34: Isolation

3D Peak Gain & Efficiency List Table



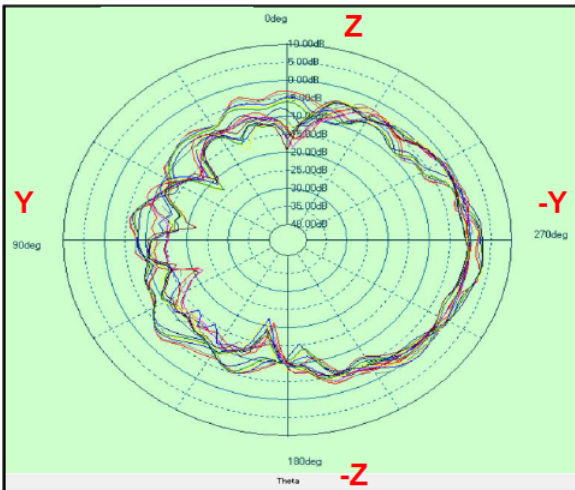
Ant2		
Frequency (MHz)	Efficiency (%)	Total Gain (dBi)
2400	57	3.16
2450	56	3.48
2500	58	3.53
5150	40	2.49
5320	45	2.92
5500	50	3.50
5600	50	3.44
5700	48	3.47
5850	43	2.70

2D Gain Pattern_Ant2_ZX Cut(Phi=0)



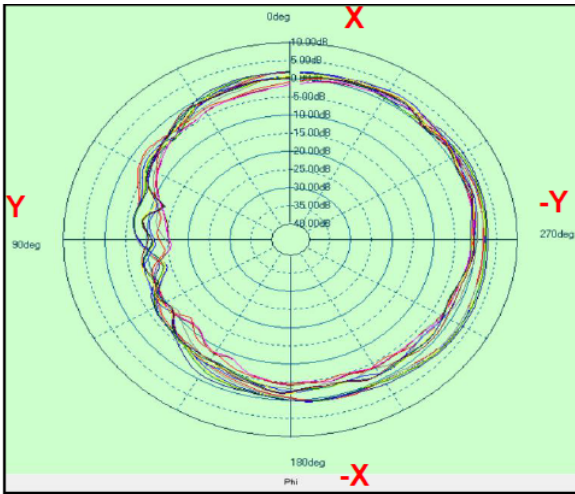
Layer	Max value	Min value	Average
2400(MHz)	2.60 dB	-11.02 dB	-2.61 dB
2450(MHz)	2.16 dB	-12.41 dB	-3.37 dB
2500(MHz)	1.82 dB	-14.70 dB	-3.80 dB
5150(MHz)	0.35 dB	-16.65 dB	-5.78 dB
5320(MHz)	0.67 dB	-19.40 dB	-5.33 dB
5500(MHz)	1.77 dB	-17.56 dB	-4.59 dB
5700(MHz)	1.66 dB	-20.52 dB	-4.69 dB
5850(MHz)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

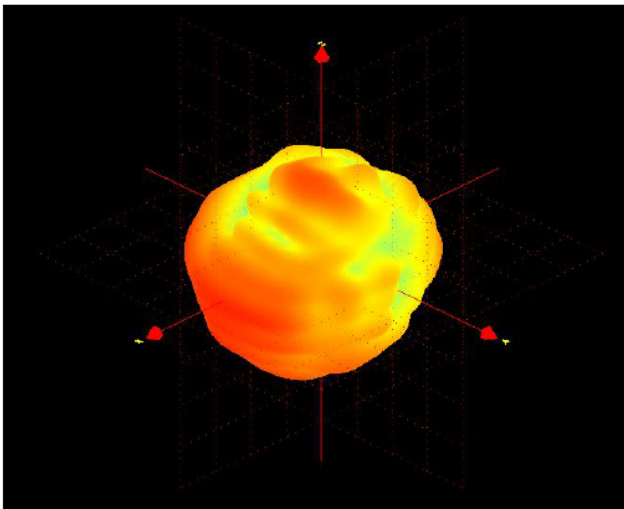
2D Gain Pattern_Ant2_XY Cut(Theta=0)



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

