



ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer :

Customer P/N :

Drawing No :

Quantity :

Pcs.

Date :

2020/03/24

Chilisin P/N :

BTPA00460725GC1A02

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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Revisions

[illegible]



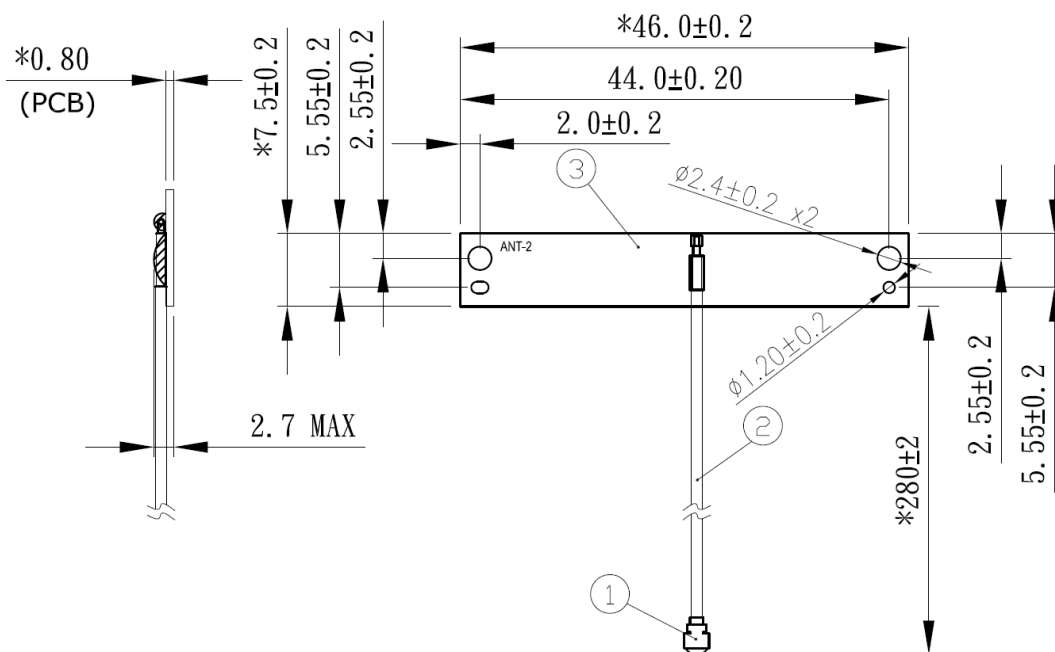
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Mechanical Specification

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

	NEW_DRAWING	04/06/'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 1代端子	1	
NO		DESCRIPTION	QTY	REMARK

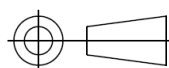
設計 DR.	核准 APPD.
ALLEN	TASON
2020/03/24	2020/03/24

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

品名	ASM, ANTENNA-2
料号	BTPA00460725GC1A02

版本說明	REVISION NOTE

CHILISIN



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



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RF Specification

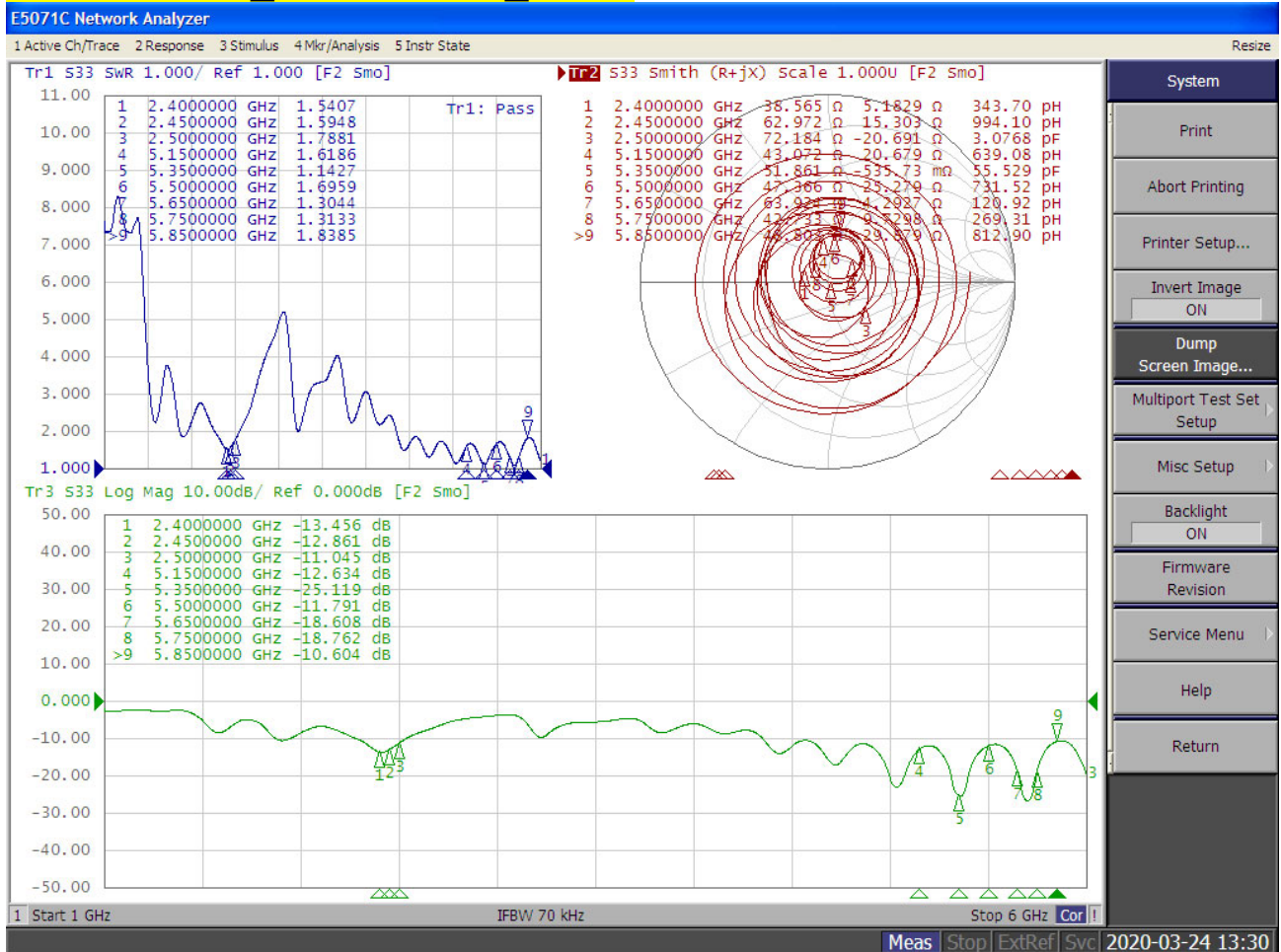
Electrical		
Item	Ant2	
Test Environment	Free Space	
Antenna Type	Dipole	
Frequency Range	2400~2500MHz 5150~5850MHz	
Returnloss	<-10	
Polarization	Linear	
Gain(Peak Gain)	2G<4 5G<5	
Efficiency	≥50%	
Input Impedance	50 ohm	



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Test Report

S- Parameter_ Return Loss_Ant2





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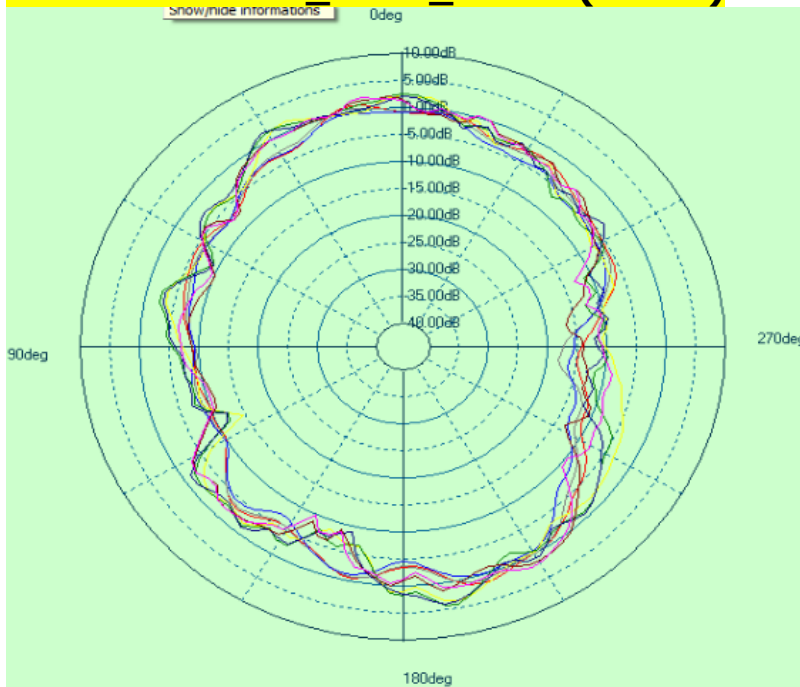
3D Peak Gain & Efficiency List Table

Ant2		
Frequency(MHz)	Efficiency	Total Gain(dBi)
2400MHz	64%	3.18
2450MHz	62%	3.18
2500MHz	57%	3.14
5150MHz	56%	4.09
5350MHz	60%	4.98
5500MHz	56%	4.58
5750MHz	50%	3.75
5850MHz	52%	4.27



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2D Gain Pattern_Ant2_ZX Cut(Phi=0)

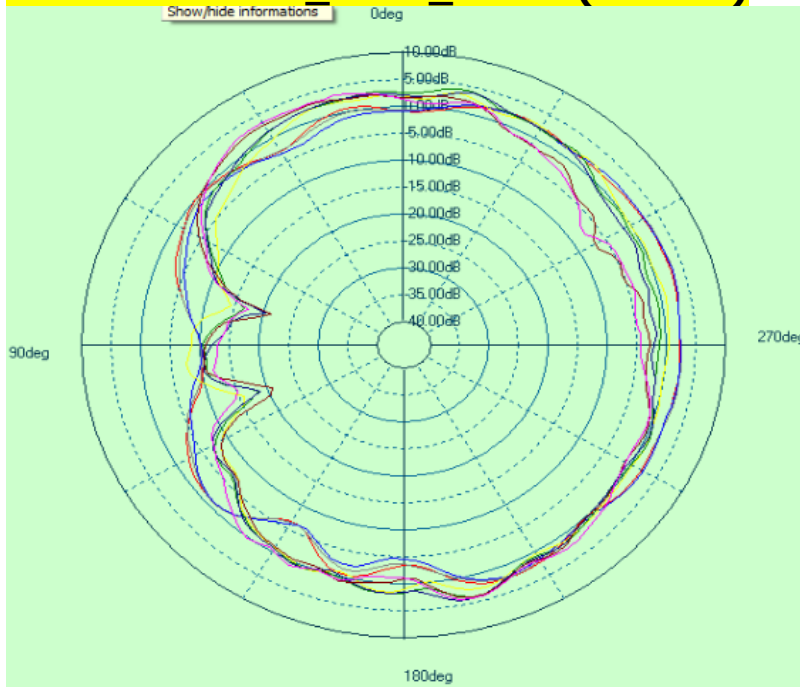


Layer	Max value	Min value	Average
2400MHz	1.48 dB	-14.82 dB	-4.40 dB
2450MHz	0.81 dB	-18.07 dB	-4.71 dB
2500MHz	-0.35 dB	-16.40 dB	-5.33 dB
5150MHz	3.54 dB	-14.66 dB	-3.22 dB
5350MHz	4.10 dB	-12.68 dB	-3.19 dB
5500MHz	3.68 dB	-13.17 dB	-3.15 dB
5750MHz	1.87 dB	-16.47 dB	-4.04 dB
5850MHz	2.24 dB	-13.08 dB	-3.82 dB



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2D Gain Pattern_Ant2_ZY Cut(Phi=90)

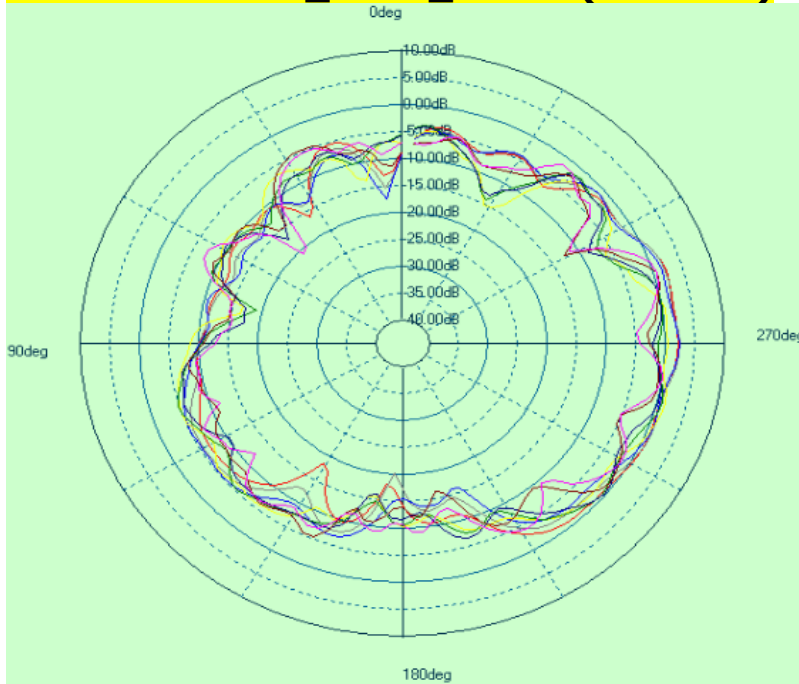


Layer	Max value	Min value	Average
2400MHz	2.85 dB	-10.31 dB	-0.42 dB
2450MHz	3.16 dB	-10.17 dB	-0.47 dB
2500MHz	3.08 dB	-10.41 dB	-0.75 dB
5150MHz	3.19 dB	-16.01 dB	-0.89 dB
5350MHz	3.98 dB	-18.63 dB	-0.74 dB
5500MHz	4.15 dB	-20.42 dB	-0.91 dB
5750MHz	3.70 dB	-21.35 dB	-1.62 dB
5850MHz	4.04 dB	-17.51 dB	-1.40 dB



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2D Gain Pattern_Ant2_XY Cut(Theta=0)



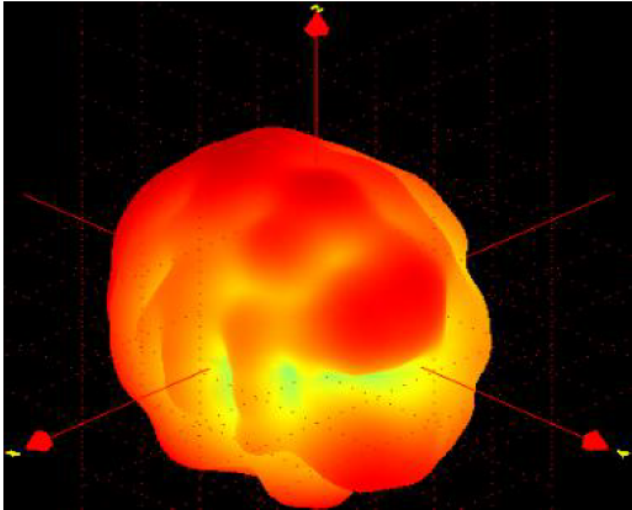
Layer	Max value	Min value	Average
2400MHz	2.25 dB	-18.46 dB	-5.25 dB
2450MHz	2.38 dB	-20.44 dB	-5.31 dB
2500MHz	2.36 dB	-17.49 dB	-5.41 dB
5150MHz	1.44 dB	-16.64 dB	-5.92 dB
5350MHz	0.78 dB	-19.00 dB	-6.02 dB
5500MHz	0.26 dB	-17.60 dB	-6.39 dB
5750MHz	0.55 dB	-16.37 dB	-6.77 dB
5850MHz	0.56 dB	-20.95 dB	-6.68 dB



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3D Gain Pattern_Ant2

2450MHz



5500MHz

