



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 :

BTPA00460725GC1A01

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]



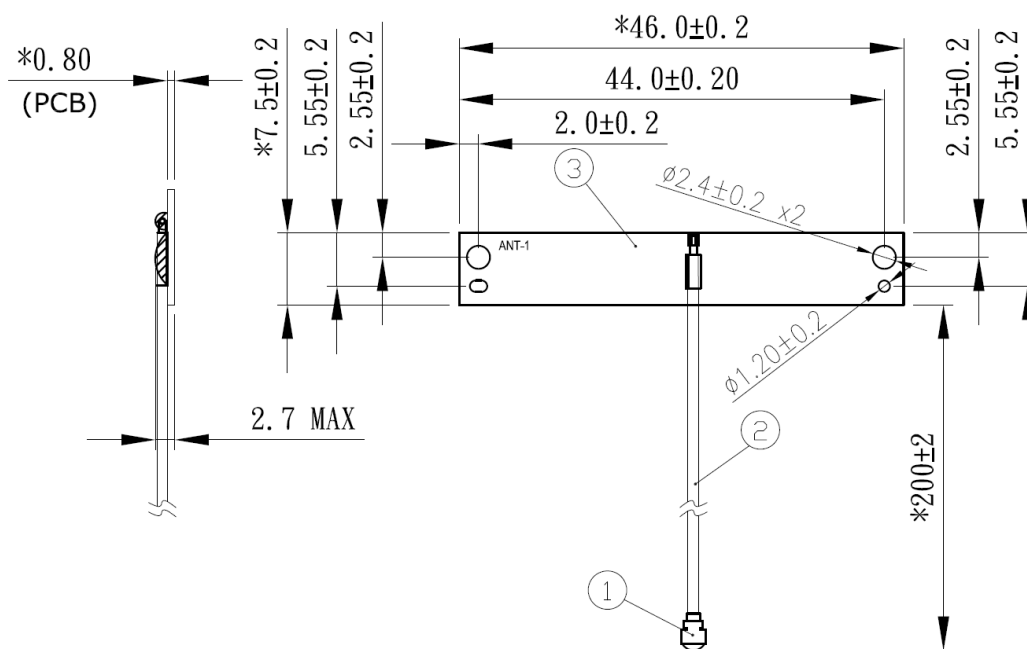
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Mechanical Specification

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
DESCRIPTION	DATE	REQ. BY

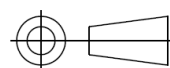
設計 DR.	核准 APPD.
ALLEN	TASON
2020/03/24	2020/03/24

版本說明	REVISION NOTE
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CHILISIN

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

容許公差	TOLERANCE	品名
.XXX	± 0.20	ASM, ANTENNA-1
.XX	± 0.35	BTPA00460725GC1A01
.X	± 0.50	
X	± 1.00	
ANG	± 5	



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



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RF Specification

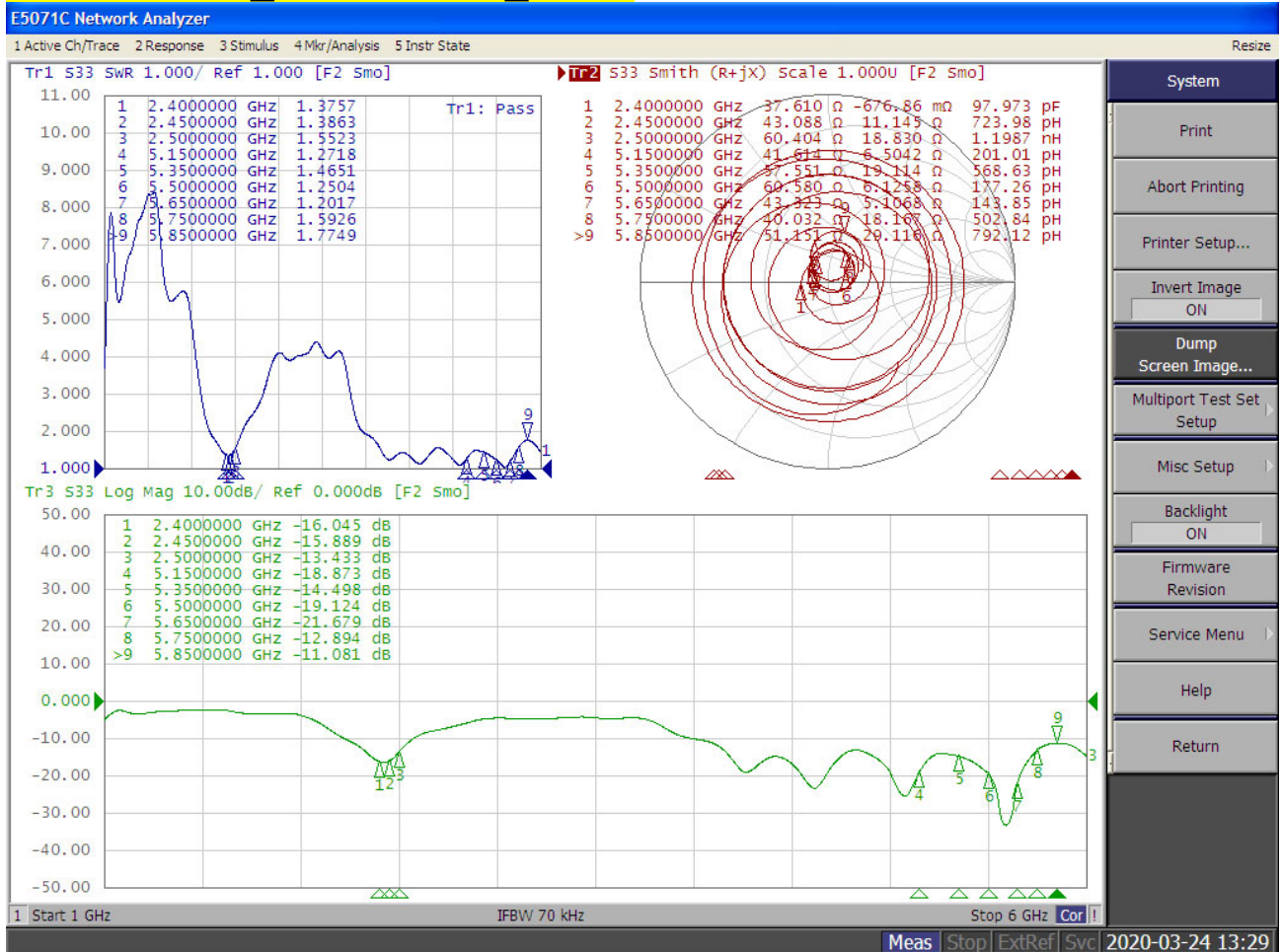
Electrical		
Item	Ant1	
Test Environment	Free Space	
Antenna Type	Dipole	
Frequency Range	2400~2500MHz 5150~5850MHz	
Returnloss	<-10	
Polarization	Linear	
Gain(Peak Gain)	2G<4 5G<5	
Efficiency	≥50%	
Input Impedance	50 ohm	



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Test Report

S- Parameter_ Return Loss_Ant1





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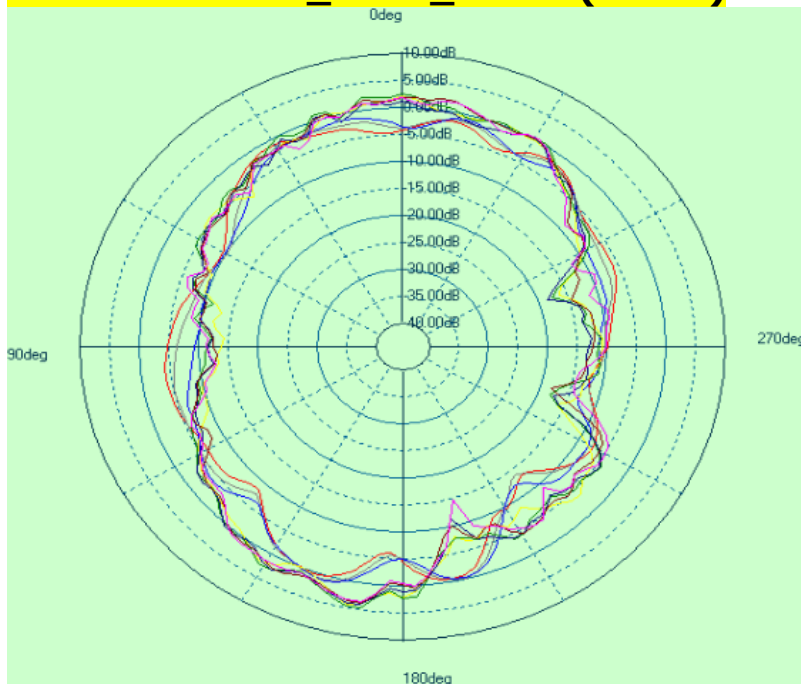
3D Peak Gain & Efficiency List Table

Ant1		
Frequency(MHz)	Efficiency	Total Gain(dBi)
2400MHz	62%	4.26
2450MHz	63%	4.31
2500MHz	59%	4.20
5150MHz	50%	4.51
5350MHz	57%	4.99
5500MHz	55%	4.63
5750MHz	50%	3.85
5850MHz	50%	4.11



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2D Gain Pattern_Ant1 _ZX Cut(Phi=0)

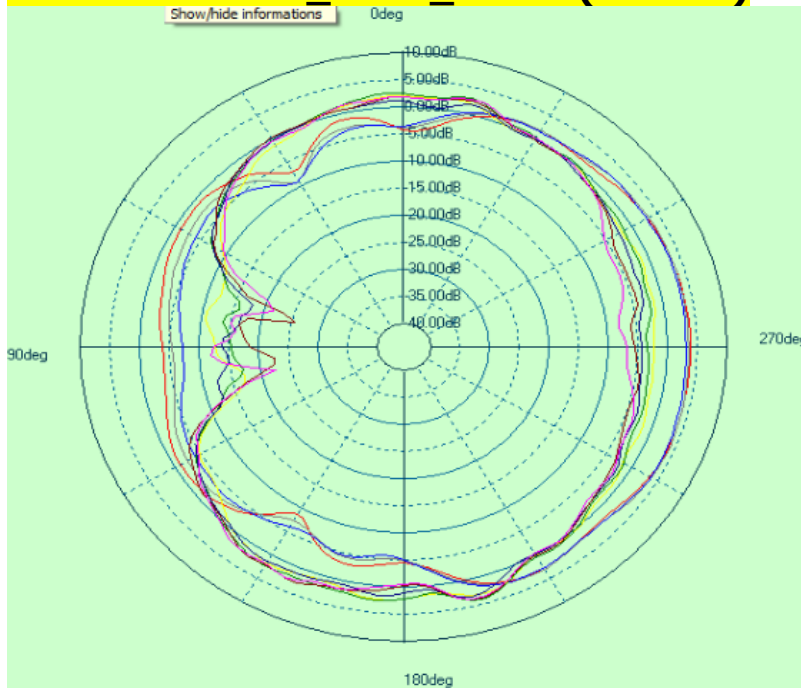


Layer	Max value	Min value	Average
2400MHz	0.12 dB	-13.22 dB	-5.12 dB
2450MHz	0.68 dB	-14.06 dB	-5.12 dB
2500MHz	0.81 dB	-13.46 dB	-5.37 dB
5150MHz	4.31 dB	-16.32 dB	-3.99 dB
5350MHz	4.51 dB	-18.12 dB	-3.41 dB
5500MHz	3.95 dB	-18.54 dB	-3.91 dB
5750MHz	3.53 dB	-18.22 dB	-3.81 dB
5850MHz	3.36 dB	-14.81 dB	-3.88 dB



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2D Gain Pattern_Ant1_ZY Cut(Phi=90)

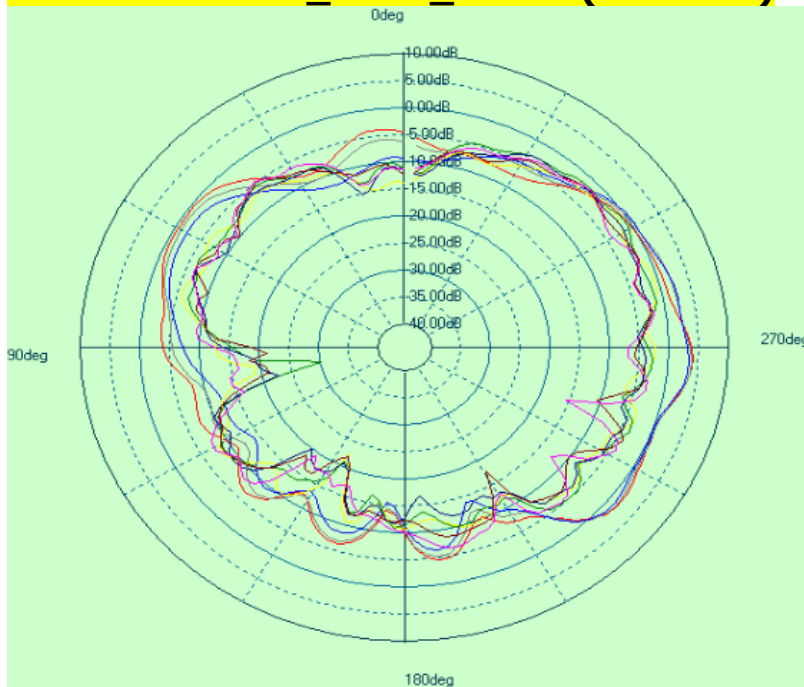


Layer	Max value	Min value	Average
2400MHz	3.95 dB	-8.83 dB	-0.23 dB
2450MHz	4.01 dB	-9.26 dB	-0.51 dB
2500MHz	3.75 dB	-9.27 dB	-0.87 dB
5150MHz	3.10 dB	-17.20 dB	-1.48 dB
5350MHz	3.87 dB	-17.19 dB	-1.18 dB
5500MHz	3.06 dB	-17.99 dB	-1.93 dB
5750MHz	3.70 dB	-25.69 dB	-1.85 dB
5850MHz	3.53 dB	-22.60 dB	-2.06 dB



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2D Gain Pattern_Ant1_XY Cut(Theta=0)



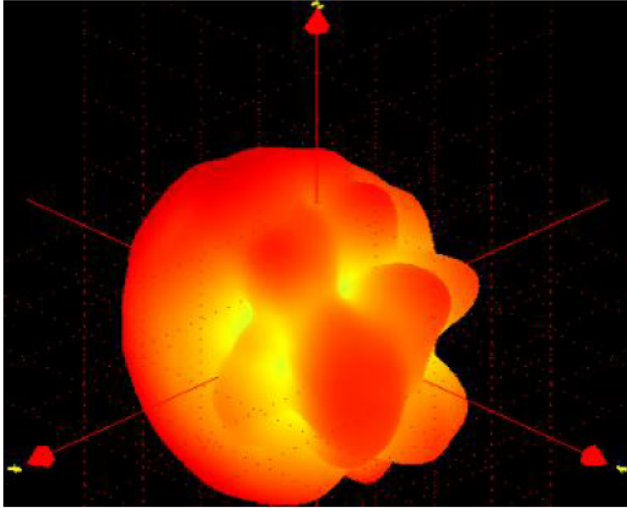
Layer	Max value	Min value	Average
2400MHz	4.09 dB	-14.16 dB	-3.49 dB
2450MHz	3.87 dB	-14.50 dB	-3.82 dB
2500MHz	3.35 dB	-15.64 dB	-4.56 dB
5150MHz	-0.63 dB	-22.59 dB	-7.75 dB
5350MHz	-0.67 dB	-30.32 dB	-7.42 dB
5500MHz	-1.61 dB	-22.86 dB	-8.19 dB
5750MHz	-1.87 dB	-22.20 dB	-8.12 dB
5850MHz	-1.70 dB	-19.58 dB	-7.65 dB



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3D Gain Pattern_Ant1

2450MHz



5500MHz

