



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

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## SPECIFICATION

ACCEPTED BY:

<b>COMPONENT ENGINEER</b>	
<b>ELECTRICAL ENGINEER</b>	
<b>MECHANICAL ENGINEER</b>	
<b>APPROVED</b>	
<b>REJECTED</b>	

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Drawn by

Checked by

Approved by





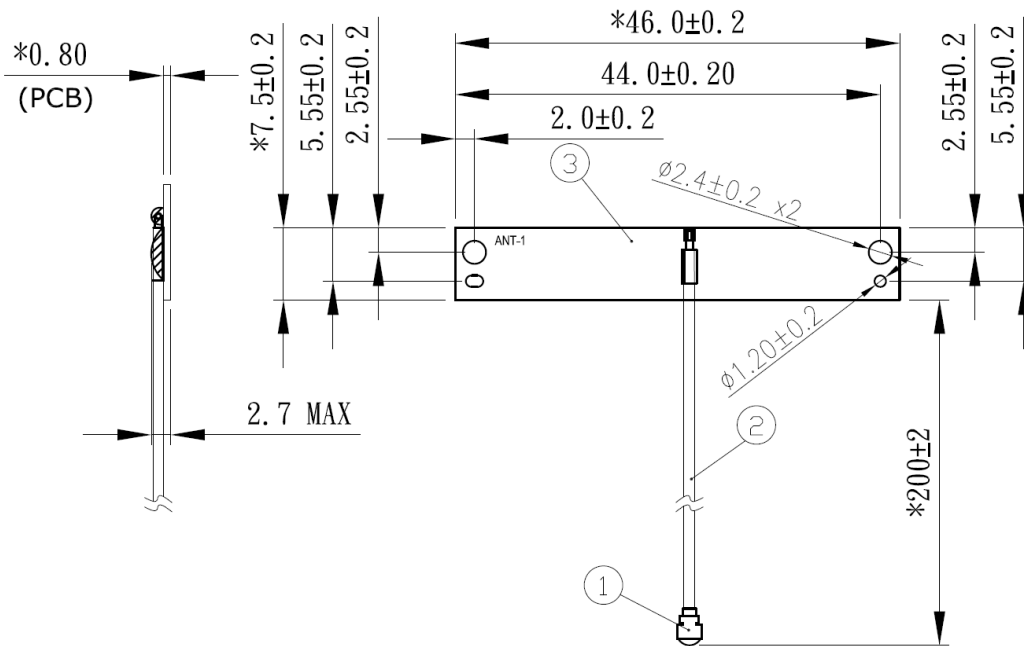
ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

# Contents

Item	Description	Page
1. . . . .	Mechanical Specification	. . . . . 4
2. . . . .	RF Specification	. . . . . 5
3. . . . .	TEST REPORT	. . . . . 6~11

# 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

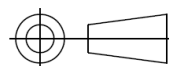
6			1	
5			1	
4			1	
3	PCB	FR4 46mm x 7.5mm x 0.8mm	1	
2	Cable	1.13MM COAXIAL CABLE (白色)	1	
1	Connector	I-PEX一代端子	1	
NO	DESCRIPTION		QTY	REMARK

設計 DR. ALLEN 2020/03/24	核准 APPD. TASON 2020/03/24
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-1 BTPA00460725GC1A01
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# CHILISIN



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



ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP.

## RF Specification

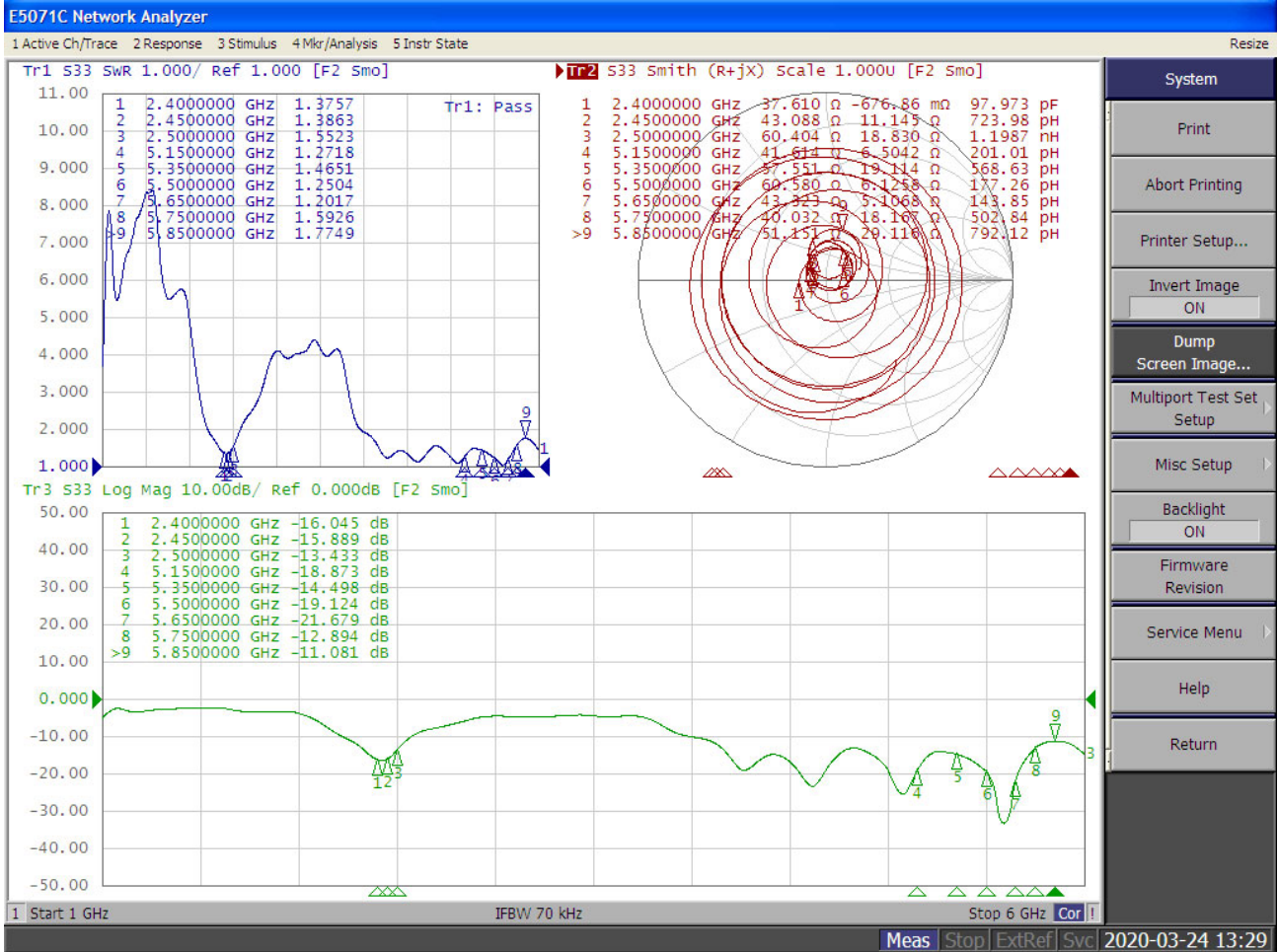
Electrical		
Item	Ant1	
Test Environment	Free Space	
Antenna Type	Dipole	
Frequency Range	2400~2500MHz 5150~5850MHz	
Returnloss	<-10	
Polarization	Linear	
Gain(Peak Gain)	2G<4 5G<5	
Efficiency	≥50%	
Input Impedance	50 ohm	



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# Test Report

## S- Parameter\_Return Loss\_Ant1



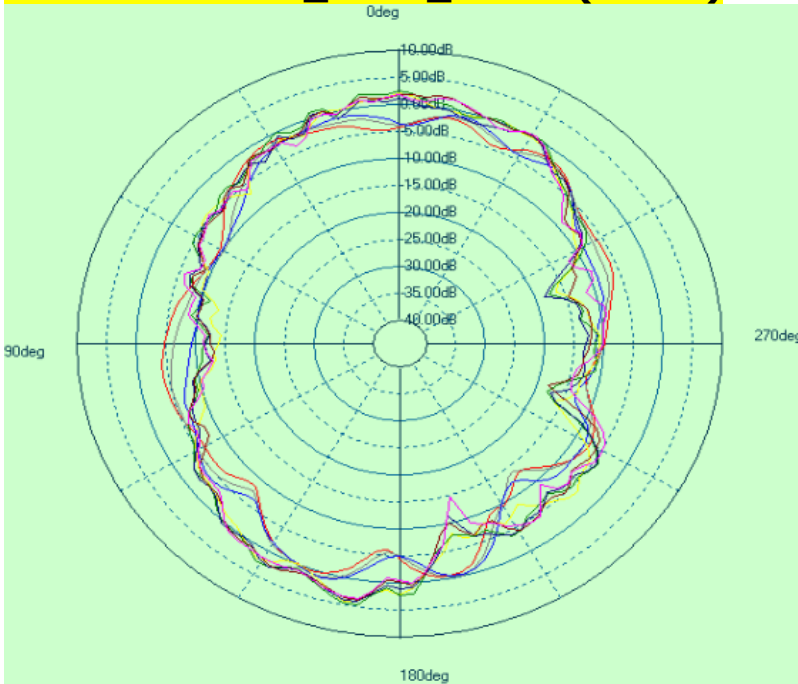


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### 3D Peak Gain & Efficiency List Table

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

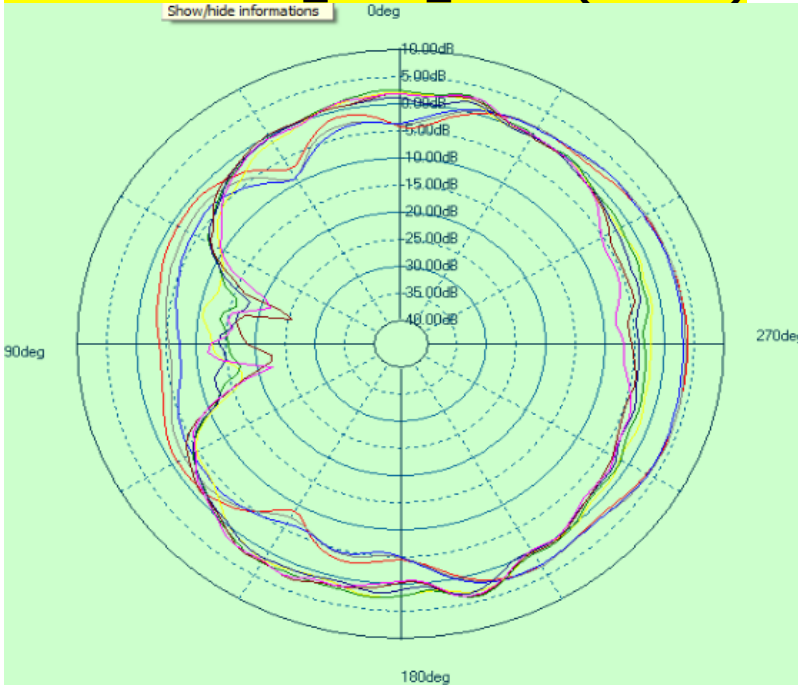
## 2D Gain Pattern\_Ant1\_ZX Cut(Phi=0)



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

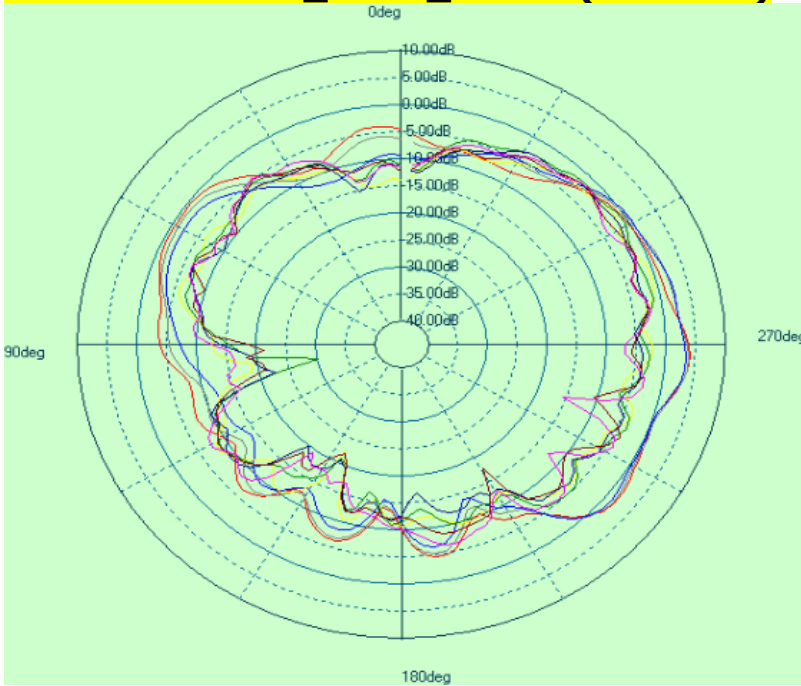


## 2D Gain Pattern\_Ant1\_ZY Cut(Phi=90)



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

## 2D Gain Pattern\_Ant1\_XY Cut(Theta=0)



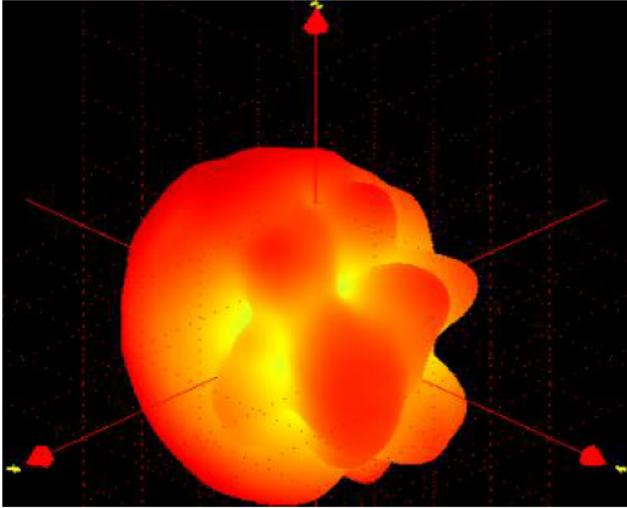
Layer	Max value	Min value	Average
2400MHz	4.09 dB	-14.16 dB	-3.49 dB
2450MHz	3.87 dB	-14.50 dB	-3.82 dB
2500MHz	3.35 dB	-15.64 dB	-4.56 dB
5150MHz	-0.63 dB	-22.59 dB	-7.75 dB
5350MHz	-0.67 dB	-30.32 dB	-7.42 dB
5500MHz	-1.61 dB	-22.86 dB	-8.19 dB
5750MHz	-1.87 dB	-22.20 dB	-8.12 dB
5850MHz	-1.70 dB	-19.58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



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### 3D Gain Pattern\_Ant1

2450MHz



5500MHz

