



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	

奇力新電子股份有限公司
 Chilisin Electronics Corp
 No. 29, Alley 301, Tehsin Rd.,
 Hukou, Hsinchu 303, Taiwan
 TEL : +886-3- 599-2646
 FAX : +886-3- 599-9176
 E-mail : sales@chilisin.com
 http : //www.chilisin.com

東莞奇力新電子(東莞廠)有限公司
 Chilisin Electronics (Dongguan) Co., Ltd.
 No. 78, Puxing Rd., Yuliangwei Administration Area,
 Qingxi Town, Dongguan City, Guangdong, China
 TEL : +86-769-8773-0251~3
 FAX : +86-769-8773-0232
 E-mail : cect@chilisin.com

奇力新電子(越南廠)有限公司
 Chilisin Electronics (Vietnam) Limited
 No 143 - 145, Road No 10, VSIP Hai
 Phong, Lap Le Commune, Thuy Nguyen
 Dist, Haiphong City, Vietnam
 Tel : 84-316 255 688 Fax : 84-316 255 689
 E-mail : sales@chilisin.com

奇力新電子(湖南廠)有限公司
 HuNan Chilisin Electronics Technology Co., Ltd
 No. 8, Shaziao Liangshuijing Town, Yuanling County,
 Huaihua City, Hunan Province 419601, China
 Tel : 86-745-867-5882
 E-mail : cect@chilisin.com

Drawn by

Checked by

Approved by



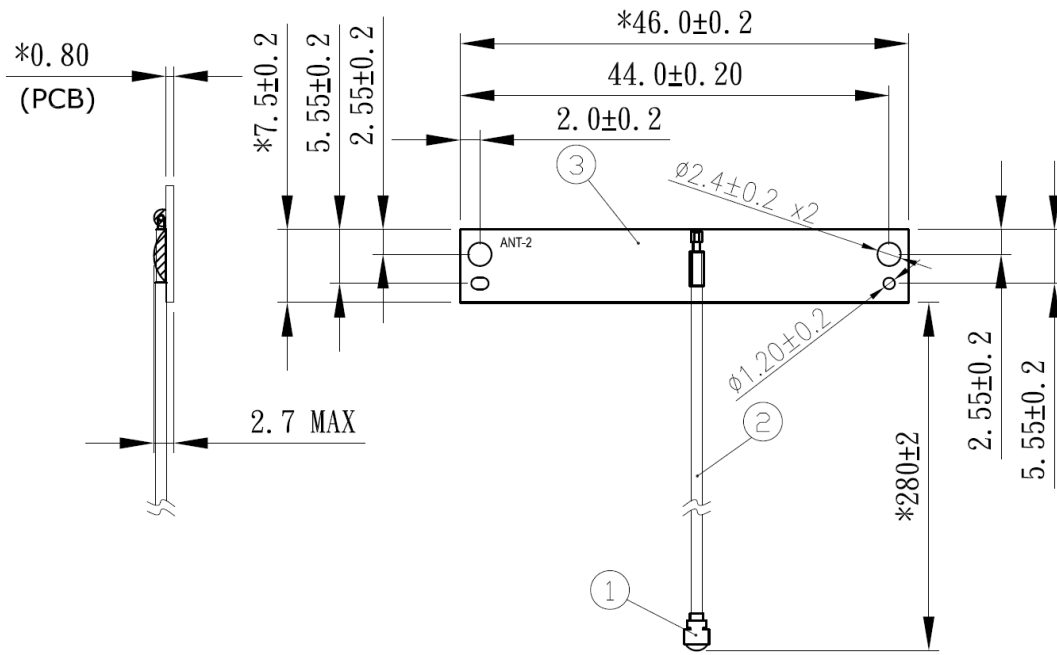
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Mechanical Specification

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

LTR	DESCRIPTION	DATE	REQ. BY	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 1代端子	1		
設計 DR.	核准 APPD.			容許公差 TOLERANCE					
ALLEN	TASON	04/06/20	ALLEN	.XXX	±0.20	品名			
2020/03/24	2020/03/24			.XX	±0.35	ASM, ANTENNA-2			
版本說明	REVISION NOTE			.X	±0.50	BTPA00460725GC1A02			
				X	±1.00				
				ANG	±5				
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

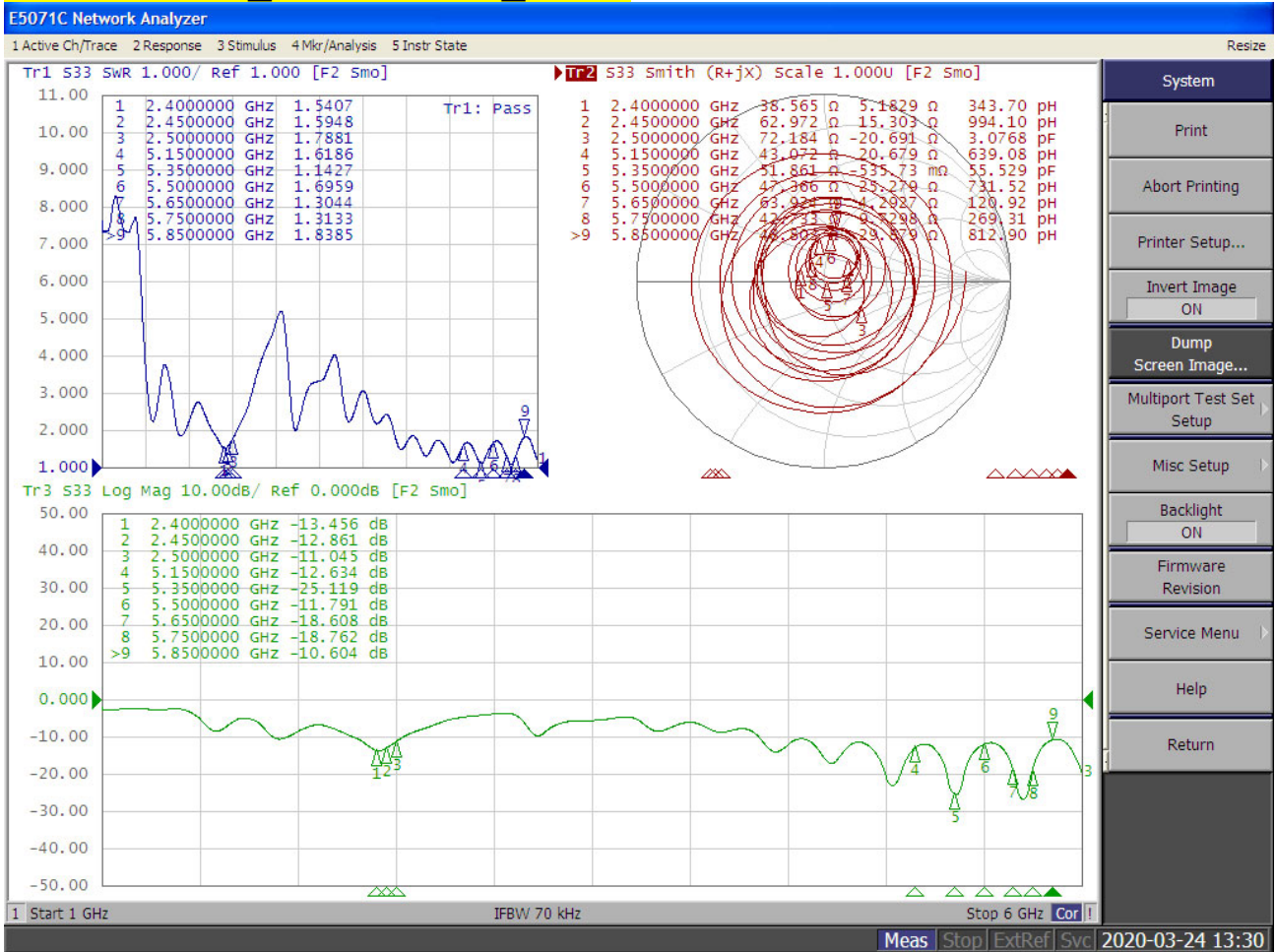
Electrical		
Item	Ant2	
Test Environment	Free Space	
Antenna Type	Dipole	
Frequency Range	2400~2500MHz 5150~5850MHz	
Returnloss	<-10	
Polarization	Linear	
Gain(Peak Gain)	2G<4 5G<5	
Efficiency	≥50%	
Input Impedance	50 ohm	



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Test Report

S- Parameter_Return Loss_Ant2



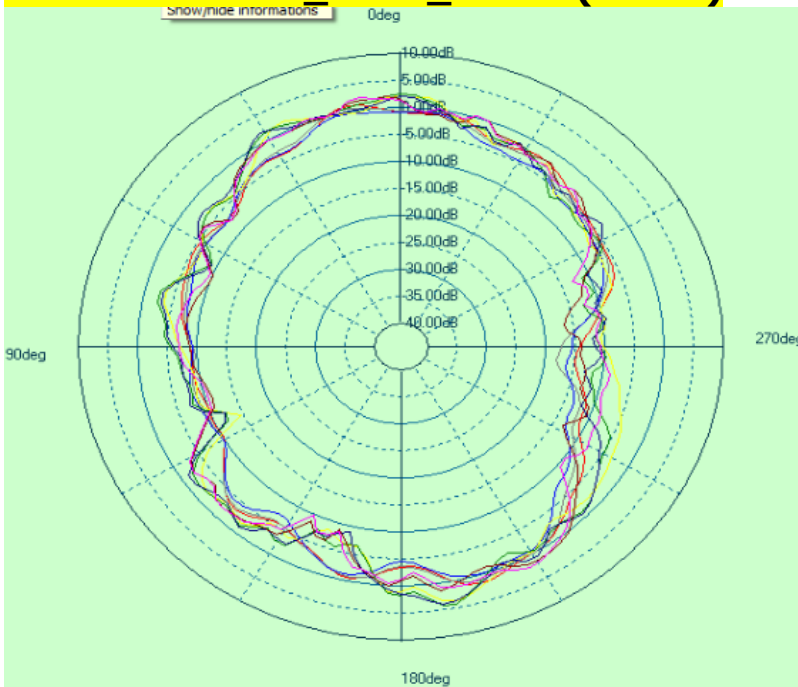


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3D Peak Gain & Efficiency List Table

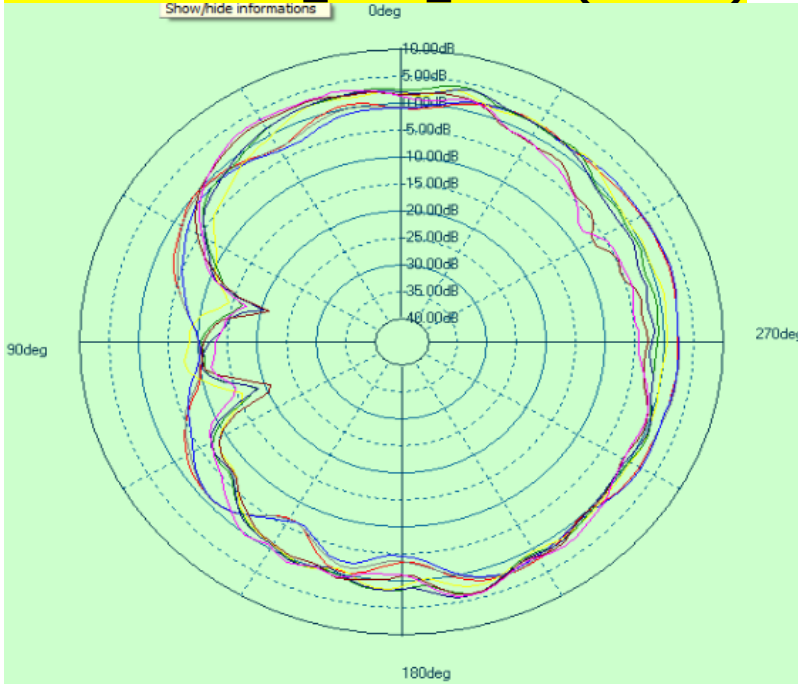
Ant2		
Frequency(MHz)	Efficiency	Total Gain(dBi)
2400MHz	64%	3.18
2450MHz	62%	3.18
2500MHz	57%	3.14
5150MHz	56%	4.09
5350MHz	60%	4.98
5500MHz	56%	4.58
5750MHz	50%	3.75
5850MHz	52%	4.27

2D Gain Pattern_Ant2_ZX Cut(Phi=0)



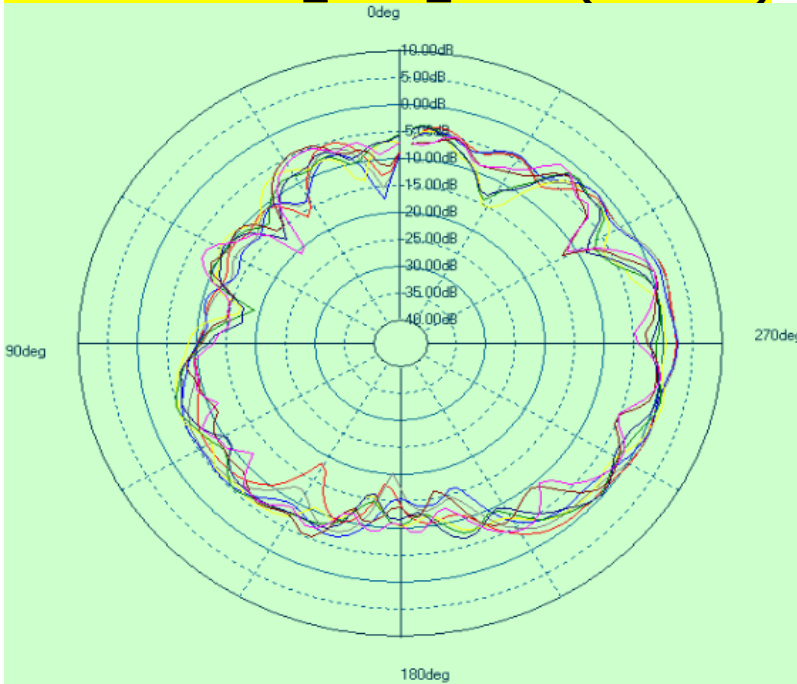
Layer	Max value	Min value	Average
2400MHz	1.48 dB	-14.82 dB	-4.40 dB
2450MHz	0.81 dB	-18.07 dB	-4.71 dB
2500MHz	-0.35 dB	-16.40 dB	-5.33 dB
5150MHz	3.54 dB	-14.66 dB	-3.22 dB
5350MHz	4.10 dB	-12.68 dB	-3.19 dB
5500MHz	3.68 dB	-13.17 dB	-3.15 dB
5750MHz	1.87 dB	-16.47 dB	-4.04 dB
5850MHz	2.24 dB	-13.08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

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

2D Gain Pattern_Ant2_XY Cut(Theta=0)



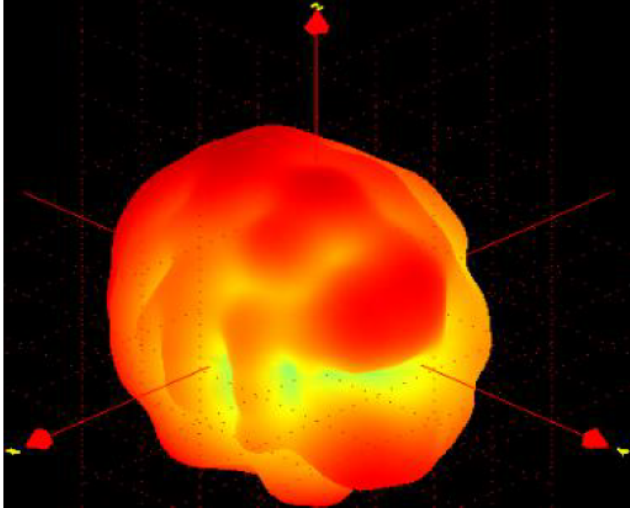
Layer	Max value	Min value	Average
2400MHz	2.25 dB	-18.46 dB	-5.25 dB
2450MHz	2.38 dB	-20.44 dB	-5.31 dB
2500MHz	2.36 dB	-17.49 dB	-5.41 dB
5150MHz	1.44 dB	-16.64 dB	-5.92 dB
5350MHz	0.78 dB	-19.00 dB	-6.02 dB
5500MHz	0.26 dB	-17.60 dB	-6.39 dB
5750MHz	0.55 dB	-16.37 dB	-6.77 dB
5850MHz	0.56 dB	-20.95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



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3D Gain Pattern_Ant2

2450MHz



5500MHz

