Shen zhen Golden-Resource Electronic Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date	2023/03/14
File No	23031401
Revision	1.0

CUSTOMER: SMART ELECTRONIC INDUSTRIAL CO.,LTD.

CUSTOMER NO: PD6N

PART NAME: BT Antenna

SUPPLIER NO: YJW01.029.008.301A

Date: Q"TY: PCS

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	XieLi	ChenXingyi

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen

Spec Item

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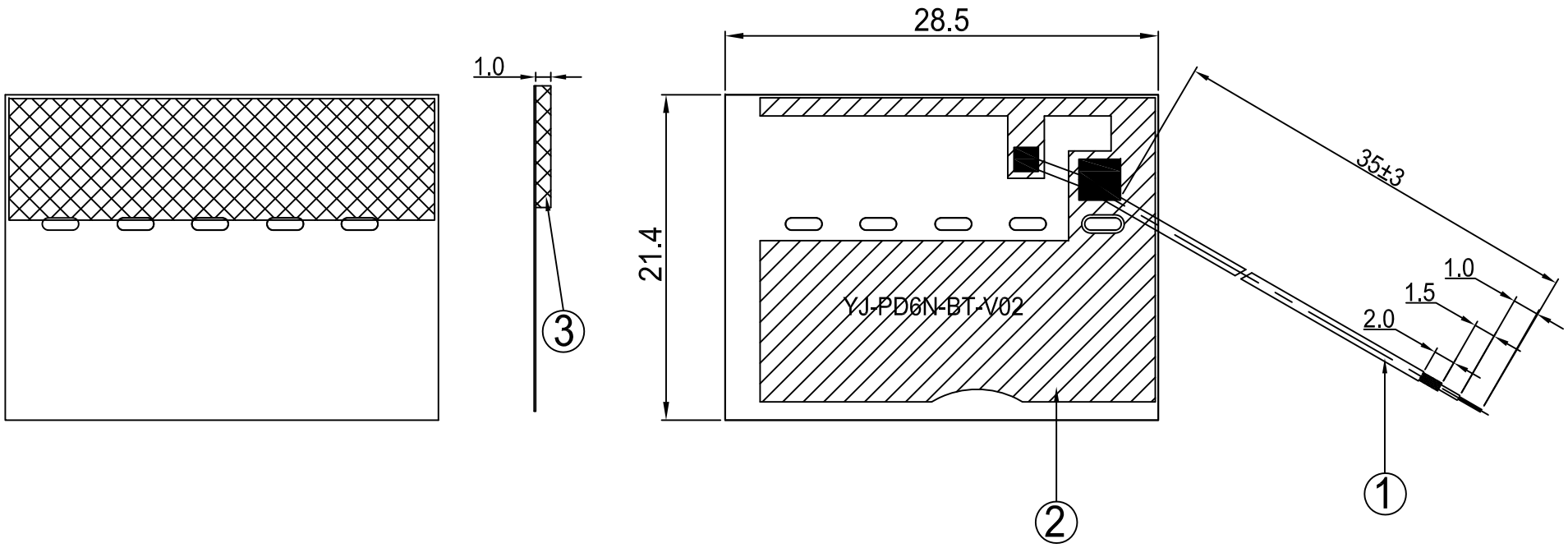
RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	Initial Issue	2019.07.26



NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY
3	EVA+Paster	28.0*8.0*1.0MM	EVA+Paster	EVA10235A.P01	1
2	FPC	28.5*21.4MM	FPCB	FPC100XXA.P01	1
1	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	COA100XXA.P01	1

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PART NAME: BT Antenna				
PART NO.: YJW01.029.008.301A			DATE: 2019-07-26	
APPROVED BY	CHECKED BY	DESIGNED BY	UNITS: mm SCALE: 1/1 REVISION: A	Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
ChenGuoQiang	XieLi	ChenXingYi		

Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	3.0 Max
Gain	0.5 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	None
Cable Type	O.D.1.13mm
Cable Length	35mm
Cable Color	Gray
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

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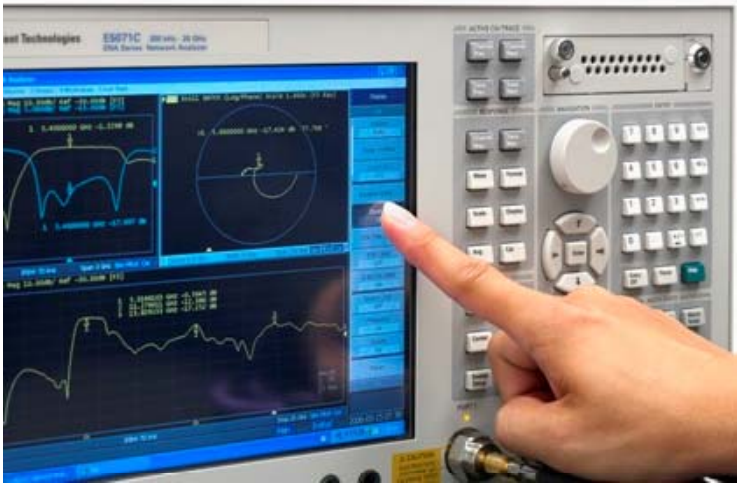
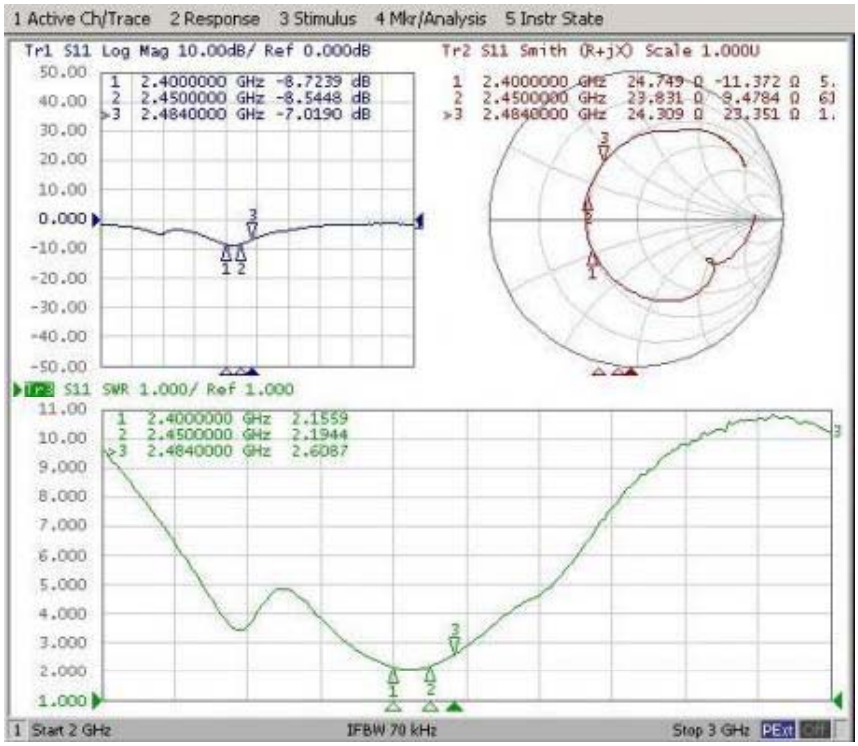
Antenna Performance Test

Agilent E5071B	
S Parameter Test // BT	

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Passive Test For BT			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	71.1	-1.5	0.5
2410	72.5	-1.4	0.4
2420	71.3	-1.5	0.2
2430	72.2	-1.4	-0.2
2440	73.5	-1.3	-0.4
2450	70.0	-1.5	-0.2
2460	72.1	-1.4	-0.3
2470	71.1	-1.5	-0.2
2480	70.1	-1.5	-0.3
2490	69.5	-1.6	-0.3
2500	68.8	-1.6	-0.4

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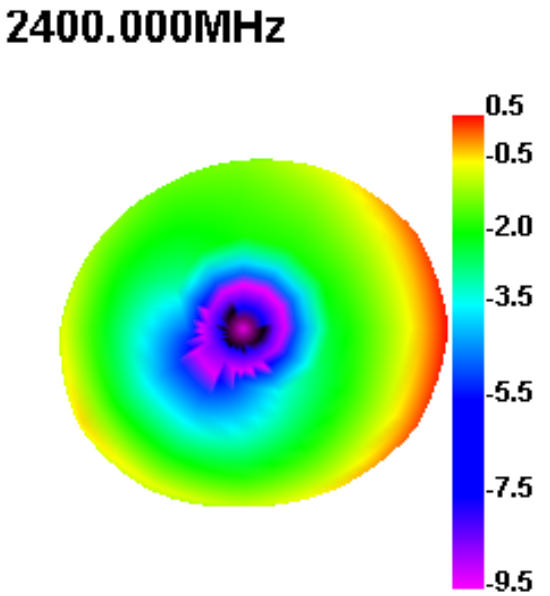
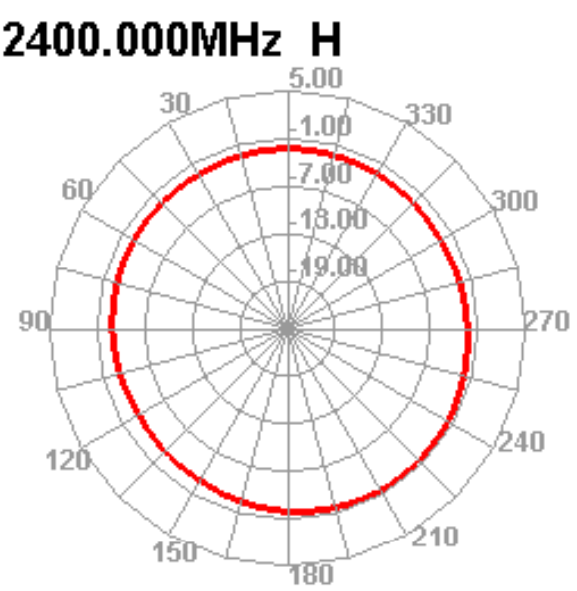
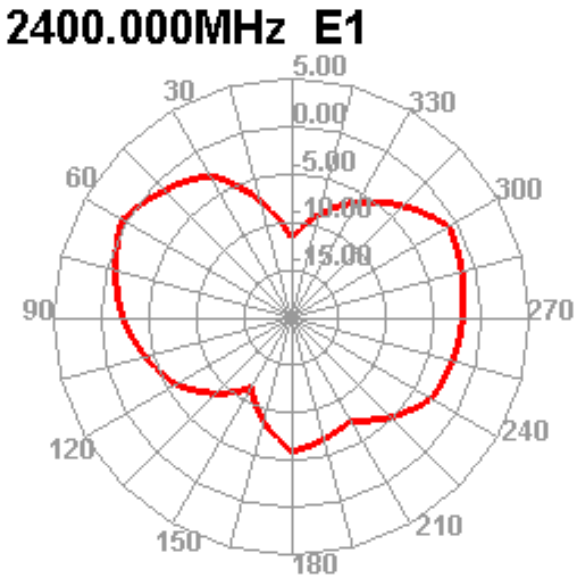
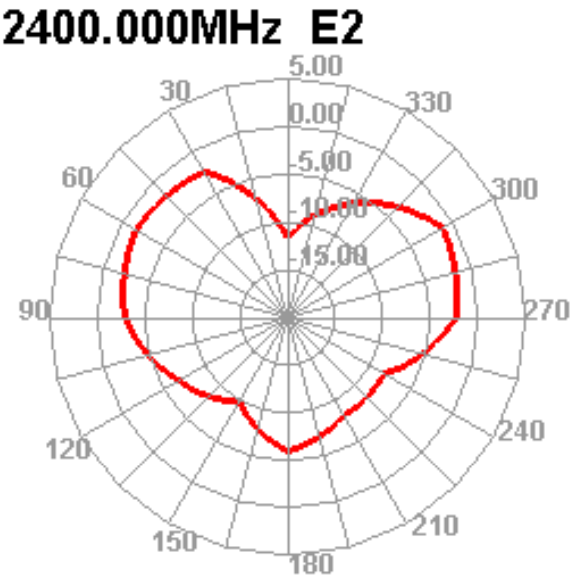
Radiation Pattern For BT Antenna









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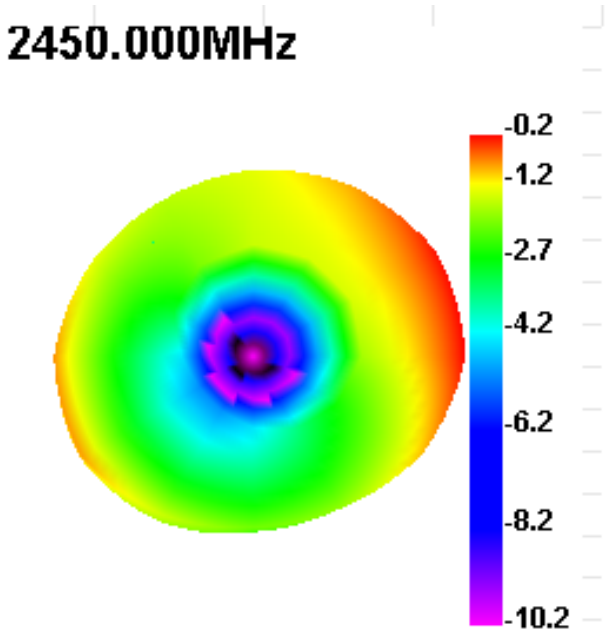

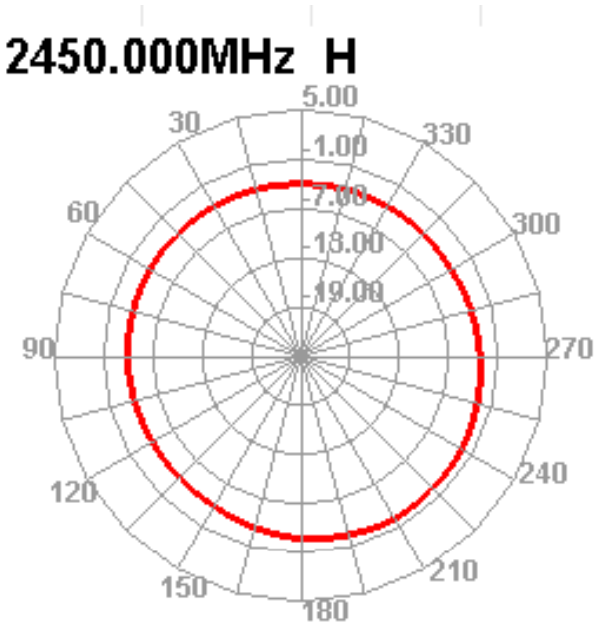

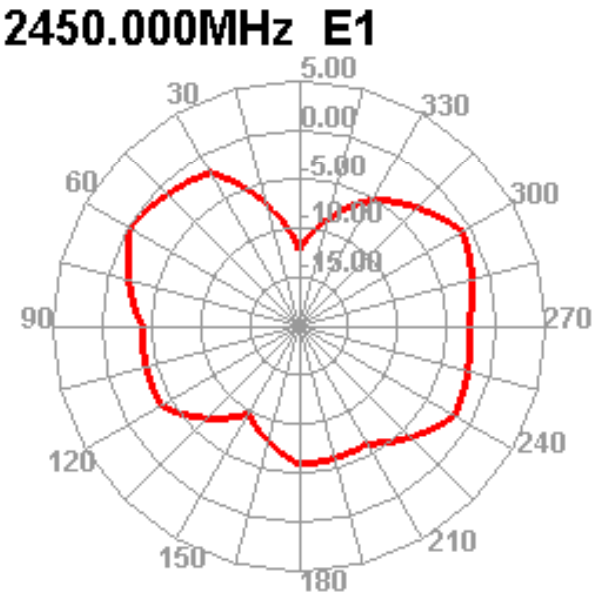

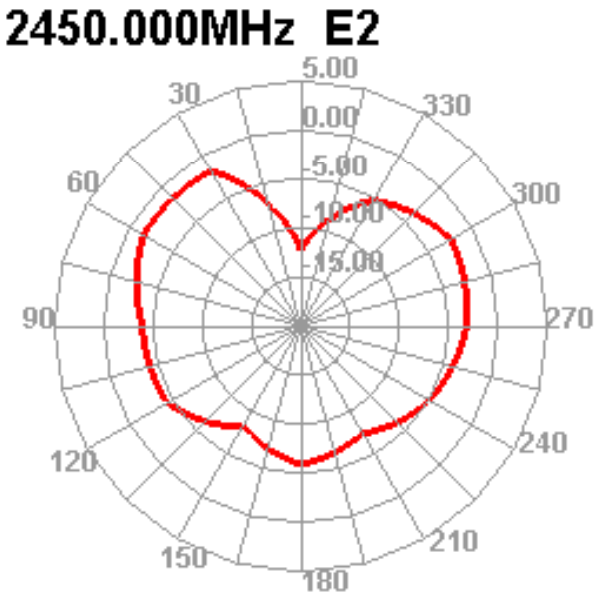

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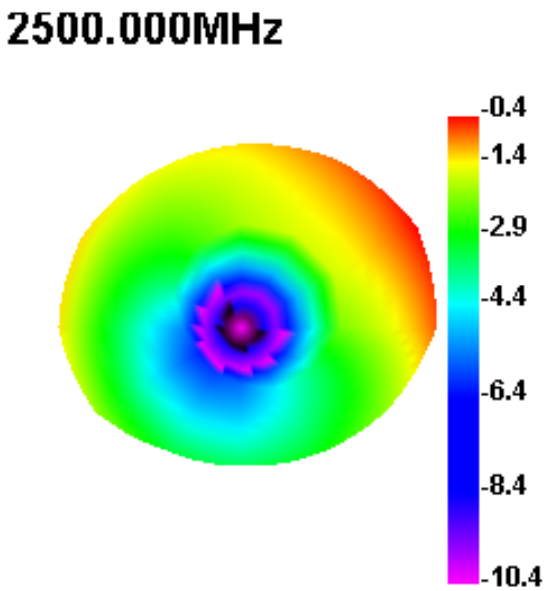

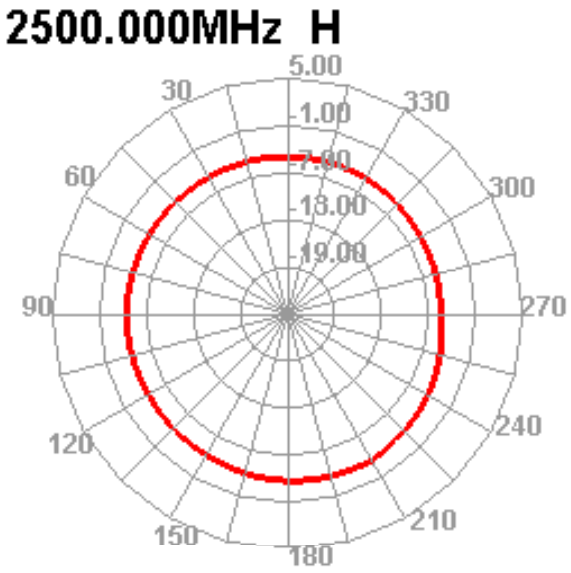

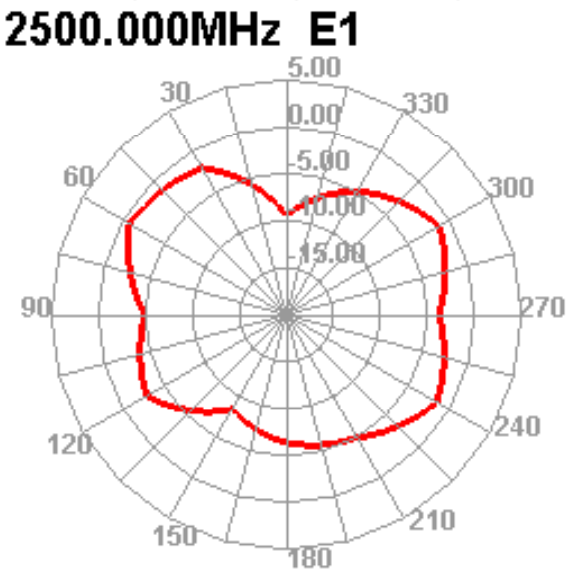

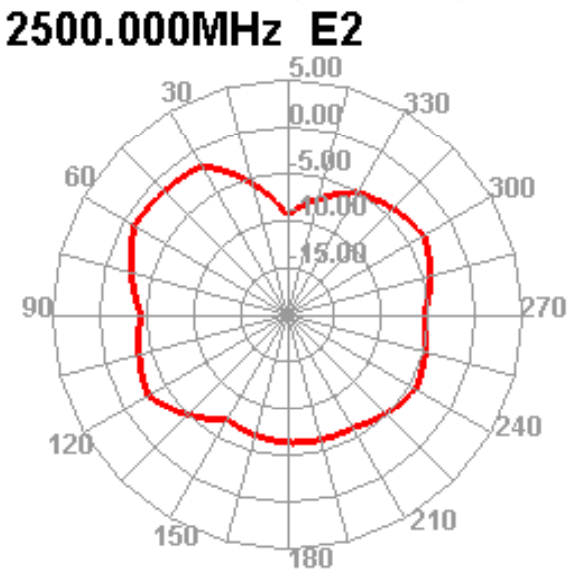

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Antenna BT

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