

SOLUM CO., LTD. 귀중

APPROVAL SHEET (승인원)

Date	2023.12.19
Part Name	3.03.1001003947
Customer Code	ML39A040024A
Description	2.4/5.8G PCB Antenna with IPEX, RF1.13 Gray Cable, L=212mm
ETC	Lead & Halogen Free PRODUCT

승인 유효기간	승인일로부터 단종, 대체 부품 승인시까지
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	구매팀장	기술팀장	대표이사
	오수한	박준영	최현영

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Specification for Approval

YNOT Co., Ltd (Solu-m)

Customer:

2.4/5.8G PCB Antenna with IPEX, RF1.13 Gray Cable, L=212mm

Part name

3.03.1001003947 (reserved)

Part No.

:

Customer Part No.

Customer Approval		
APPROVAL	CHIEF	SUPERVISOR

Manufacturer Recognition			
SALES	CHECK	CHIEF	DESIGN
<i>Effy</i>	<i>Mr. Li</i>	<i>Jerry</i>	<i>Ms. Zheng</i>
Date:2023-10-20		Date:2023-10-20	
THANKS FOR OFFERING US THE OPPORTUNITY TO SEND SAMPLES FOR APPROVEMENT. PLS KINDLY SIGN BACK THIS DOCUMENT TO US WHEN SAMPLES ARE APPROVED.			

FEIYUXIN HEADQUARTER

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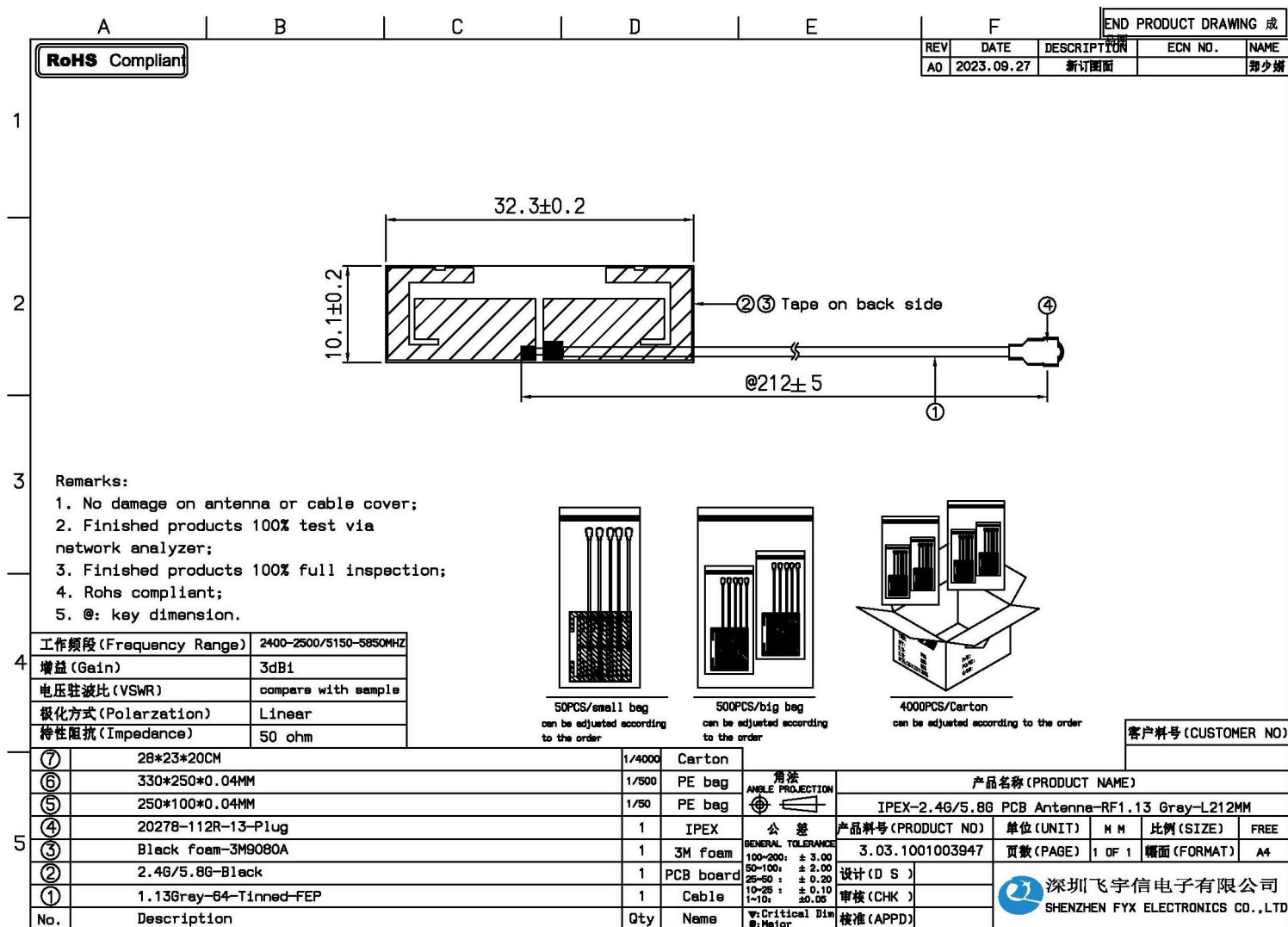
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Modification Record

Revision	Date	Engineer	Modified Content
01	2023.10.20	Ms. Zheng	NEW

Antenna Drawing



表单编号: FYX/E-QR-14A 版本: 第三版

Product Specifications

1. Antenna Specs

Product Name: 2.4/5.8G PCB Antenna with RF1.13 Gray Cable	
DESCRIPTION	VALUE
Frequency range	2400-2500/5150~5850MHz
Impedance	50Ω
V.S.W.R	Compare with sample
Gain	3dBi
Radiation	Omni-directional
Radiating element	1/4 Wave Helical
Polarization	linear Vertical
Admitted power	5W
Connector	IPEX/U.FL
Cable type	RF1.13
Operating temp	-40℃~+70℃
Storage temp	-45℃~+75℃



2. Cable Specs

1.13 Structure



Item	Material	OD(mm)
1. Inner conductor	Tinned copper wire	7/0.08±0.02
2. Insulator	PE	0.66±0.02
3. Outer conductor	Tinned copper wire	0.88±0.05
4. Jacket	FEP	1.13±0.05

Electrical performance

Capacitance(pF/m)	96±3
Impedance(ohm)	50
Rate(%)	66
Bending radius (mm)	≤7
Maximum operating voltage (VMS)	1000
Maximum operating frequency (MHz)	6000
Operating temperature range (°C)	-40 TO +80

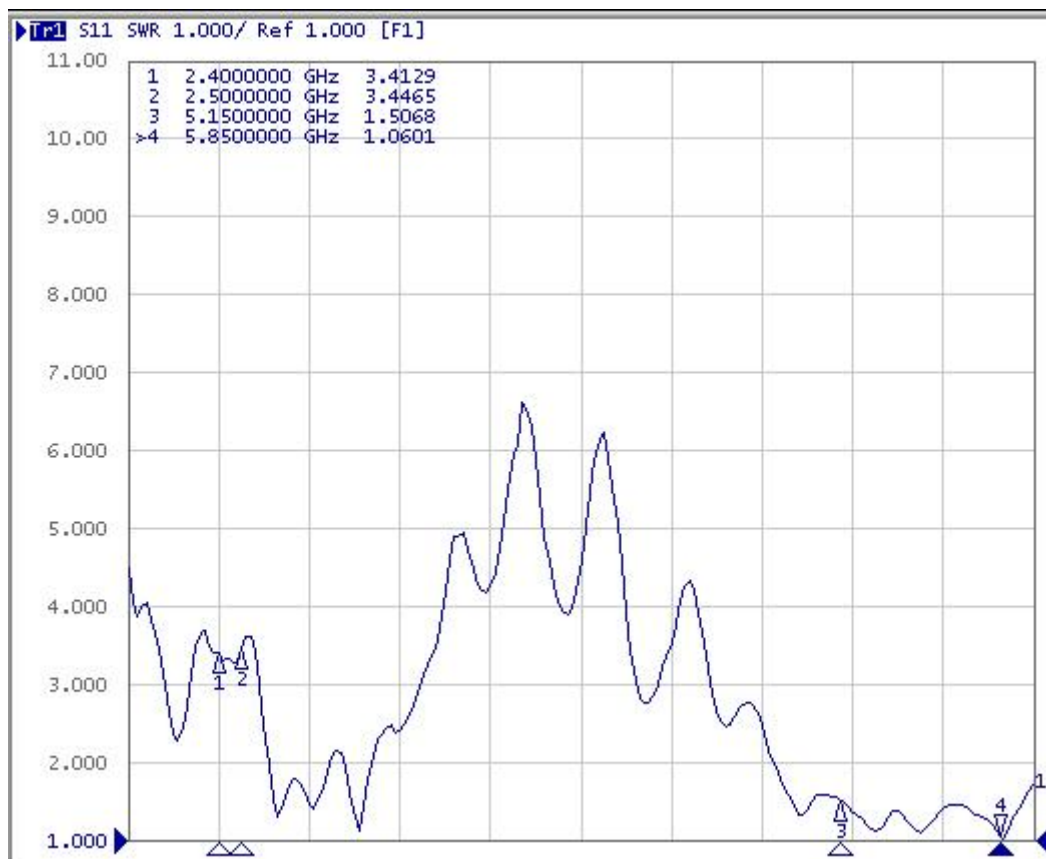
Attenuation (typical)

Frequency MHz	Attenuation (dB/m)
100	0.42
400	0.58
1000	2.20
2000	3.40
3000	4.20
4000	4.50
5000	5.20
6000	5.60

Test Report

(Empty test without customer's device)

1. VSWR Test



2. Efficiency and Gain Test

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	56.08	-2.51	3.59	1.44
2410	52.47	-2.8	3.08	0.93
2420	47.27	-3.25	2.37	0.22
2430	47.83	-3.2	2.57	0.42
2440	47.09	-3.27	2.35	0.2
2450	51.95	-2.84	2.72	0.57
2460	52.99	-2.76	2.96	0.81
2470	46.17	-3.36	2.16	0.01
2480	49.42	-3.06	2.86	0.71
2490	43.37	-3.63	1.79	-0.36
2500	44.11	-3.55	2.12	-0.03

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5150	75.15	-1.24	2.8	0.65
5220	56.1	-2.51	1.84	-0.31
5290	60.66	-2.17	1.52	-0.63
5360	76.42	-1.17	2.94	0.79
5430	94.7	-0.24	4.47	2.32
5500	81.71	-0.88	2.83	0.68
5570	83.32	-0.79	2.75	0.6
5640	63.53	-1.97	2.3	0.15
5710	72.77	-1.38	3.61	1.46
5780	72.95	-1.37	3.04	0.89
5850	54.23	-2.66	1.73	-0.42

Packing Information (Box & Label size format)

Carton Size: 28x23x20 cm

Label format as below

Customer: Y-NOT	
PO:	
P/N:	
Description:	
Q'ty:	pcs
Date:	



飞宇信

QC

PCB

QC

FYX/O-WI-1-0234

: A0

2023-8-22

Engineering Task				Control						Test Instrument	Record	Risk assessment
Control	Flow chart	Task	Standard OP	Item	Specification	Sampling / Testing	Responsibility		Inspection point			
1												
2	 OK					, AQL MIL-STD-105E GENEAL INSPECTION LEVEL AQL: MAJOR 0.4 MINOR 1.5 CR 0	IQC		1    2 Connector PIN 3. 4			
3								27 70%				

Remark

Flow chart symbol "

"-Connection, "

"- Inspection, "

"- Operation,

"- Transfer

"- Document, "

"- Storage

Approved By:

Check By

Prepared By

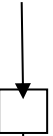
QC

/ PCB QC

FYX/Q-WI-1-0234

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2023-8-22

Engineering Task				Control						Test Instrument	Record	Risk assessment
Control	Flow chart	Task	Standard OP	Item	Specification	Sampling / Testing	Responsibility		Inspection point			
4				/								BOM
5						/	/IPQC				IPQC	
6						/	/IPQC				IPQC	
7						/	/IPQC				IPQC	

Remark Flow chart symbol " " - Connection, " " - Inspection, " " - Operation, " " - Transfer, " " - Document, " " - Storage
 Approved By: Check By Prepared By

QC

/ PCB QC

FYX/Q-WI-1-0234

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2023-8-22

Engineering Task				Control						Test Instrument	Record	Risk assessment
Control	Flow chart	Task	Standard OP	Item	Specification	Sampling / Testing	Responsibility		Inspection point			
8		PCB				/	/IPQC		:420 -450		IPQC	/
9						/	/IPQC		---		IPQC	
10						/	/IPQC		---		IPQC /	
11							FQC		PCB			

Remark Flow chart symbol " " -Connection, " " - Inspection, " " - Operation, " " - Transfer, " " - Document, " " - Storage
 Approved By: Check By Prepared By



QC

/ PCB QC

FYX/Q-WI-1-0234

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2023-8-22

Engineering Task				Control						Test Instrument	Record	Risk assessment
Control	Flow chart	Task	Standard OP	Item	Specification	Sampling / Testing	Responsibility		Inspection point			
12	ok 		OQC			, MIL-STD-105E AQL: MAJOR 0.4 MINOR 1.5 CR 0	OQC	---	, , , ,	/	OQC	
13								—				

Remark Flow chart symbol " " -Connection, " " - Inspection, " " - Operation,  " - Transfer,  " - Document, " " - Storage
 Approved By: Check By Prepared By