SPECIFICATION FOR APPROVAL

CUSTOMER：

CUSTOMER PARTNO：

SUPPLIER：Shenzhen Feasycom Co.,LTD

PRODUCT MODEL：FYT-04

PRODUCT NAME：5.8G Rod Antenna

PRODUCT CODE： F12E00020A1 （M02-0700010R0A）

CUSTOMER SIGNATURE：	CUSTOMER SEAL：

SUPPLIER SIGNATURE：	SUPPLIER SEAL：

NOTE: PLEASE RETURN THIS COPY AS A CERTIFICATION OF YOUR APPROVAL

Prepared by： 董春玲	Date： 2022.06.17	Add：	Room 508, Building A, Phoenix Smart Valley, No. 50, Tiezi Road, Xixiang, Baoan District, Shenzhen
		Tel：	0755-27924639
		Fax：	

VERSION INFORMATION

Version	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2022.06.17	First edition released	董春玲	杨永成	陈建尤

PERFORMANCE PARAMETER

1.Electrical Characteristics		
1	Frequency Range	5100MHz-5900MHz
2	V.S.W.R	<2.0
3	Gain	>4.4dBi
4	Impendence	50Ω
5	Polarization	Vertical polarization
2.Mechanical parameters		
1	Measure	195.0mm* Φ13mm
2	Interface type	SMA Male pin
3	Wire cable	RG178
4	Colour	Black

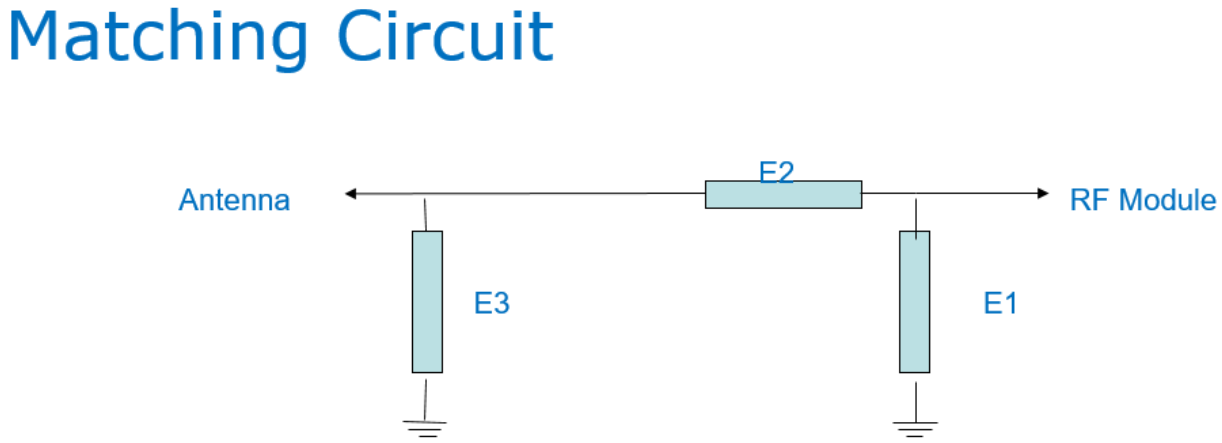
3.Environment Condition

1	Working Temp	-40℃～+85℃
2	Storage Temp	-40℃～+85℃

TESTING CURVE

1.Processing mode

1.1 Matching circuit

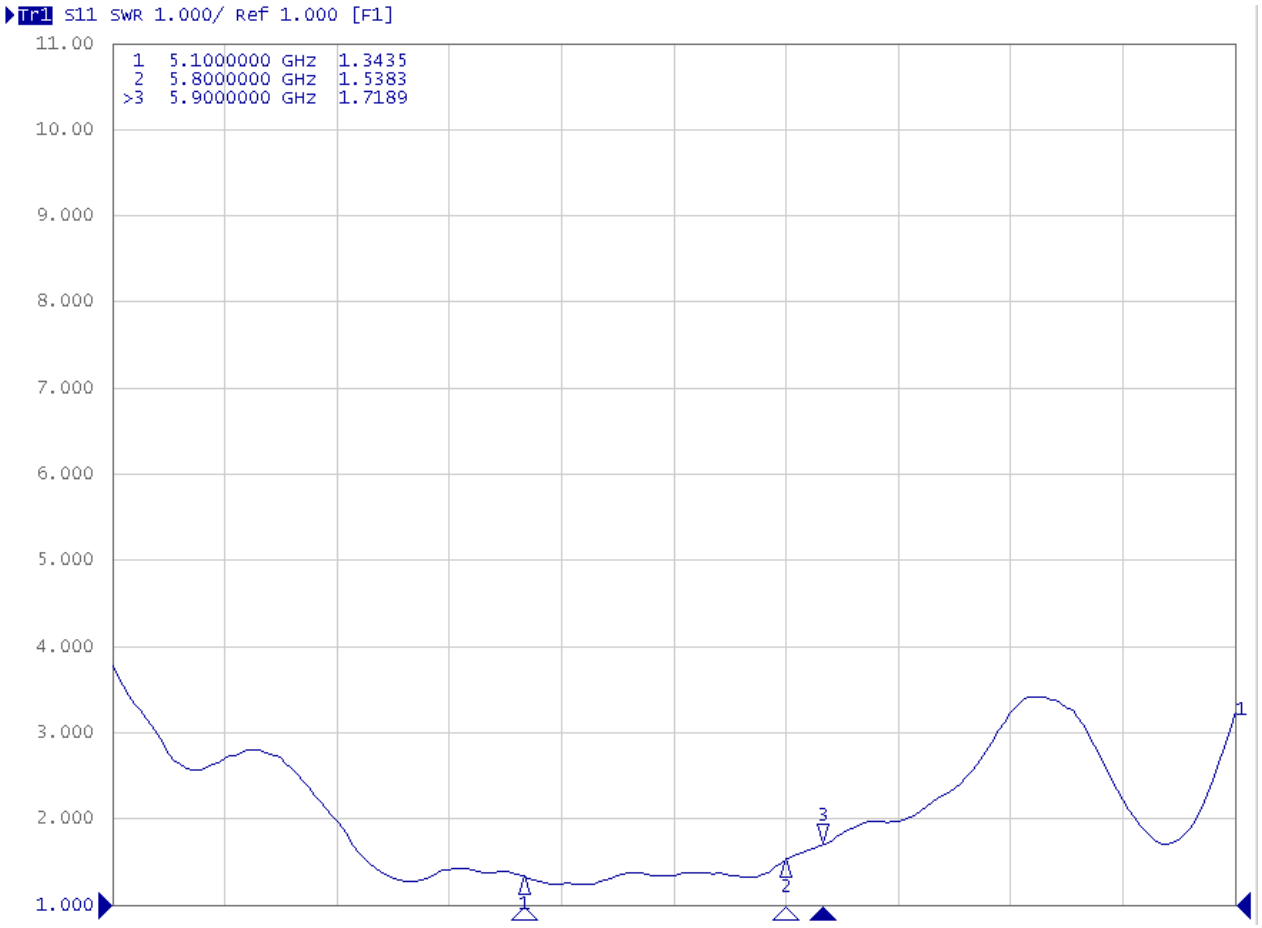


Element	Value
E1(0402)	NC
E2(0402)	0
E3(0402)	NC

TESTING CURVE

2.Performance test

2.1 V.S.W.R



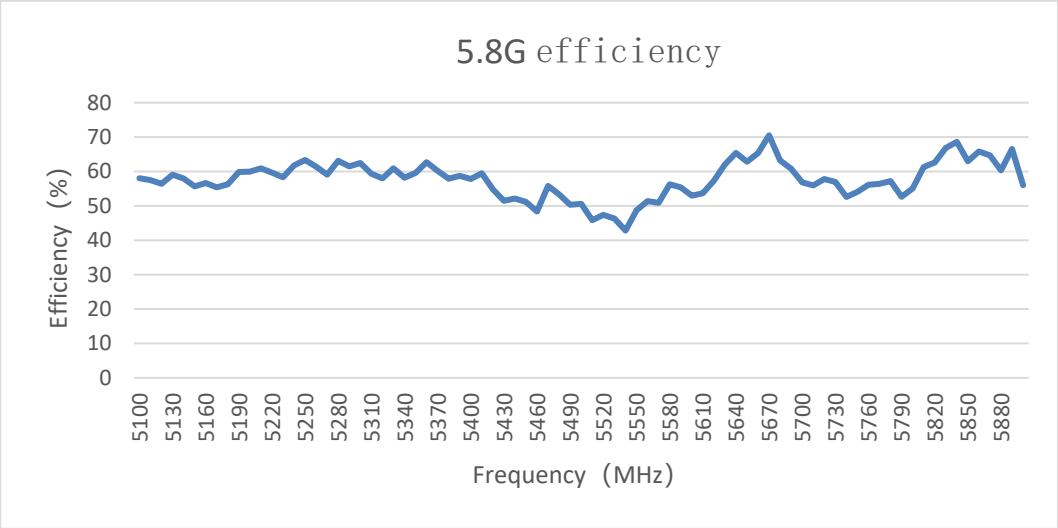
Data list

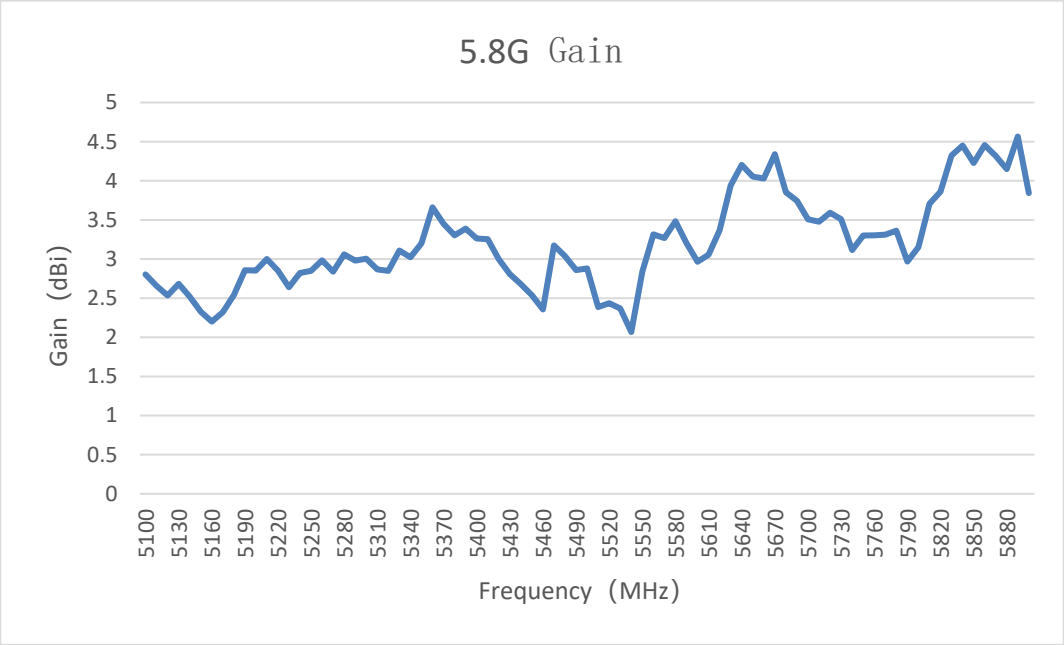
Freq/GHz	5.1	5.8	5.9
VSWR	1.34	1.53	1.71

TESTING CURVE

2.2 Passive testing

2.2.1 Efficiency and Gain



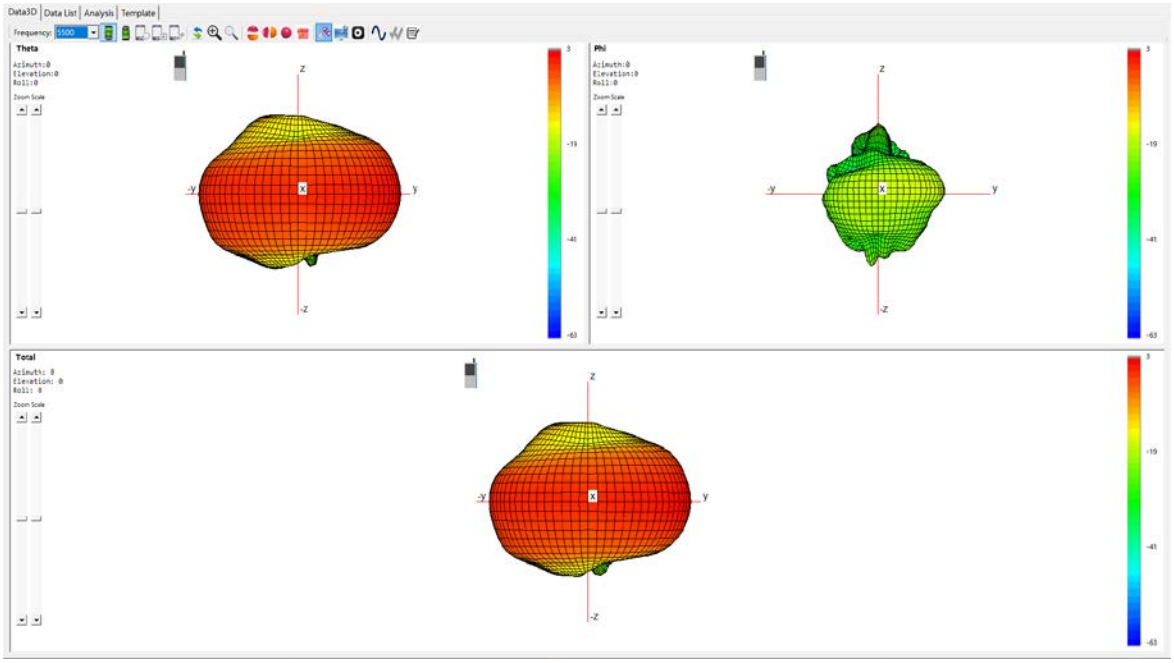


Data list

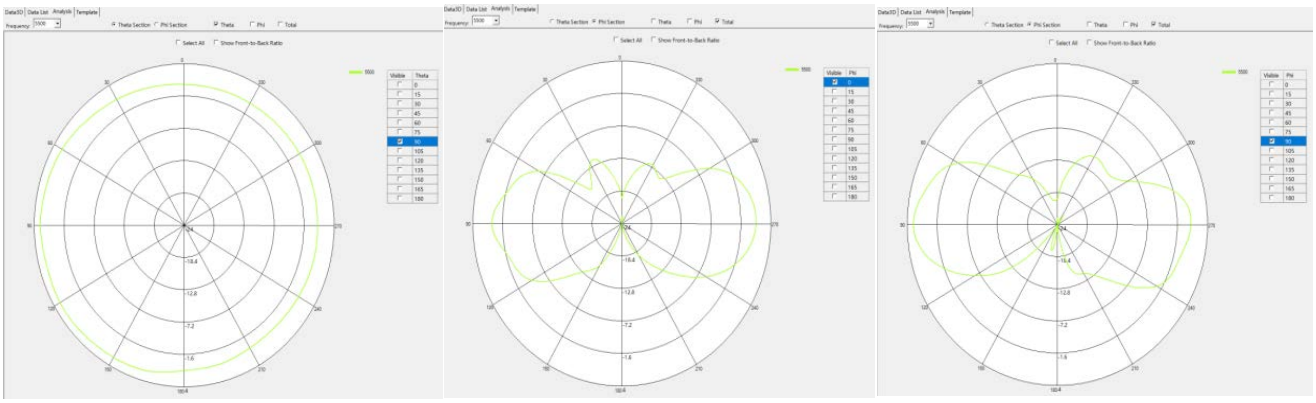
Freq (MHz)	Gain (dBi)	Efficiency (%)	Freq (MHz)	Gain (dBi)	Efficiency (%)	Freq (MHz)	Gain (dBi)	Efficiency (%)
5100	2.80	58.06	5370	3.45	60.19	5640	4.20	65.41
5110	2.66	57.47	5380	3.30	57.88	5650	4.05	62.82
5120	2.53	56.43	5390	3.39	58.74	5660	4.03	65.34
5130	2.68	59.07	5400	3.26	57.79	5670	4.34	70.51
5140	2.52	57.94	5410	3.25	59.47	5680	3.85	63.20
5150	2.33	55.66	5420	3.00	54.84	5690	3.74	60.77
5160	2.20	56.62	5430	2.81	51.47	5700	3.51	56.84
5170	2.32	55.41	5440	2.68	52.15	5710	3.48	55.93
5180	2.54	56.28	5450	2.54	51.17	5720	3.59	57.79
5190	2.86	59.84	5460	2.36	48.37	5730	3.51	56.95
5200	2.85	59.93	5470	3.17	55.79	5740	3.11	52.61
5210	3.00	60.92	5480	3.04	53.33	5750	3.30	54.10
5220	2.85	59.68	5490	2.86	50.30	5760	3.30	56.13
5230	2.64	58.31	5500	2.88	50.59	5770	3.31	56.43
5240	2.82	61.75	5510	2.39	45.87	5780	3.36	57.20
5250	2.85	63.36	5520	2.44	47.40	5790	2.97	52.66
5260	2.98	61.40	5530	2.37	46.33	5800	3.15	55.06
5270	2.84	59.07	5540	2.07	42.82	5810	3.71	61.29
5280	3.06	63.13	5550	2.84	48.73	5820	3.86	62.59
5290	2.98	61.48	5560	3.31	51.40	5830	4.32	66.85
5300	3.00	62.48	5570	3.27	50.88	5840	4.45	68.61
5310	2.87	59.32	5580	3.48	56.26	5850	4.23	62.98
5320	2.85	58.01	5590	3.20	55.38	5860	4.46	65.79
5330	3.11	60.91	5600	2.97	52.99	5870	4.32	64.70
5340	3.02	58.20	5610	3.05	53.65	5880	4.15	60.30
5350	3.20	59.59	5620	3.37	57.32	5890	4.57	66.57
5360	3.66	62.67	5630	3.94	62.05	5900	3.84	56.01

TESTING CURVE

2.3 3D Map



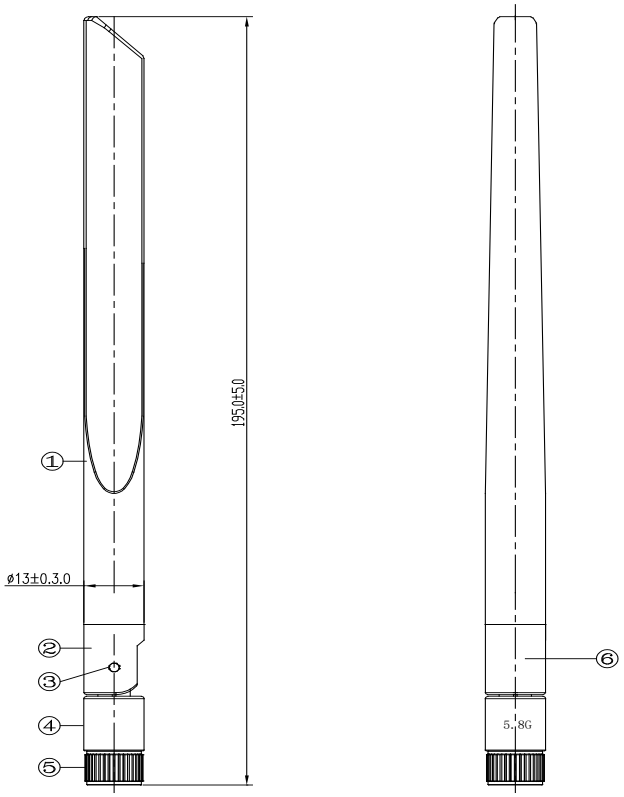
2.4 2D Figure



SCHEDULE DRAWING

RoHS Compliant G P

No.	Name	Material	Color	size	Amount	Remark
1	Antenna Jacket	TPE	Black	156mm*Φ13mm	1	
2	Upper base	PC+PBT	Black	18*Φ13mm	1	
3	Shaft	POM	Black	5*Φ2.25mm	2	
4	Lower base	PC+PBT	Black	14.5*Φ13mm	1	
5	SMA Connectors		Black	Φ13.0（male pin）	1	
6	Laser Engraving					



Remark:

1. The dimensions marked with “ ” are key dimensions.
2. The contents of Pb, Hg, Cr+6, PBBs, and PBDEs in each part are less than 500PPM, and Cd is less than 50PPM.

Rev	Description	Date	Remark
A0	New drawing	20220617	

Third Angle

0～10	±0.10
10～18	±0.15
18～30	±0.20
30～40	±0.25
40～	±0.30

Angle

Location

Project		Designed by	
Part Name	5.8G Rob Antenna	Date	
Part No.	M02-0700010R0A	Checked by	RF
Material		Date	
DWG No.		Approved by	
		Unit mm	Scale 1:1

Certificate of Acceptance Sample Size Inspection Report

Project Name		FYT-04			Antenna Type	5.8G Rpb Antenna		Inspection date	2022.06.17		
Appearance inspection standards					1. There is no abnormality on the antenna surface.						
Dimensional inspection standards					2. Within the tolerance range required by the drawing						
Code	Inspection items	Specifications	Inspection tools	Number of samples	Judgment	Description					
1	Appearance	As above standard	Visual	3	OK						
2	Size	As shown in the following table	Vernier caliper	3	OK						
Code	Inspection items	Specifications	Inspection tools	Test results (including the highest and lowest values)							
				1	2	3	4	5	6		
1	Appearance Size	195.0±5.0	Caliper	195.8	196.0	195.5					
2		⌀13±0.3		13	13	13					
3											
4											
5											
Remark											
Approver： 杨永成				Reviewer：陈建尤			Inspector：董春玲				

QC ENGINEERING DRAWING

QC ENGINEERING DRAWING	Document number	MA-QCW-2206-033	File name	FYT-04			Prepared by	赵艳
	Version	A					Reviewer	徐茂元
	Release Date	2022.06.17	Effective Date	2022.06.17	Page	1/1	Approver	徐茂元

Code	Process	Process Name	Process parameters/ quality characteristics	Use equipment fixture	Testing equipment	Inspection method	Check frequency	Usage Record	Responsible	Related Documents
1		Incoming material inspection	Inspection standards/drawings	Caliper	/	Visual	AQL Sampling	IQC Inspection Report	IQC	
2		Production picking	Production order	/	/	/	/	Pick List	Warehouse keeper	
3		Unpack (open the bag) to confirm the quantity	Delivery Note	/	/	/	/	Delivery Note	Operator	
4		Assemble the SMA header	Technical Documents/ Drawings/BOM	/	Manual	Visual	Full inspection	Production daily report	Operator	
5		Inspection	IPQC Process Inspection Regulations	/	Visual	Visual	2H	IPQC process inspection records	IPQC	
6		Soldering PCB	Technical Documents/ Drawings/BOM	/	Manual	Visual	Full inspection	Production daily report	Operator	
7		Inspection	IPQC Process Inspection Regulations	/	Visual	Visual	2H	IPQC process inspection records	IPQC	
8		Assemble the enclosure	Technical Documents/ Drawings/BOM	/	Manual	Visual	Full inspection	Production daily report	Operator	

QC ENGINEERING DRAWING

9		Inspection	IPQC Process Inspection Regulations	/	Visual	Visual	2H	IPQC process inspection records	IPQC	
10		Appearance inspection	Technical documents/ drawings/appearance judgment criteria	/	Visual	Visual	Full inspection	Production daily report	inspector	
11		Testing	Technical documents/ drawings	/	Network Analyzer	Testing Visual	Full inspection	Production daily report	Operator	
12		Packaging (bagging) quantity confirmation	Drawings/BOM	/	/	Visual	Full inspection	Production daily report	Operator	
13		Testing	IPQC Process Inspection Regulations	/	Visual	Visual	2H	IPQC process inspection records	IPQC	
14		Storage	Production order	/	/	/	/	Product Inventory Order	Warehouse keeper	
15		Pre-shipment inspection	Shipping Notice	Network Analyzer		Measurement	AQL Sampling	/	OQC	

Description: □peration and processing; ◇confirma ion, inspection, judgment and approval; ▽Storage; ↓ Transport

Mark	Modifications	Version	Date	Modified by	Approver
		A	2022.06.17	赵艳	徐茂元

ROHS TEST REPORT

Project material name	Material Code	Report test sample name	Testing agency	Testing time	Test report number	Test Conclusion	Remark
FYT-04 （M02-0700010R0A)	F12E00020A1	Base	SGS	2022/3/10	CANEC2203190501	OK	
		Shell	SGS	2021/11/3	CANEC2120138401	OK	
		SMA	SGS	2021-10-27	CANEC2118965605	OK	
		PCB	SGS	2021/11/4	NGBML2105022604	OK	
		Foam	SGS	2022-01-04	CANEC2124348308	OK	
		Coaxial Cable	SGS	2021-08-23	CANEC2114861410	OK	

Fictitious person: 董春玲	Reviewer： 陈建尤	Date：2022.06.17	Stamping place：

PRODUCT VERIFICATION

Test items	Test description/test standard	Target Requirements	Product Verification (PV)							Remark
			Sample		Trial Location			test	Responsible Person	
			Number	Type	guest	supplier	Third Party	Result		
Appearance inspection	The surface should not have defects such as dents, scratches, cracks, deformation, burrs, mildew spots, etc.; the surface coating should not bubble, crack, or fall off; metal parts should not have rust or other mechanical damage; the injection material should not overflow.	Normal appearance	Full inspection	Tooling parts		√		OK		
Size	According to drawing size	Within the size tolerance	3pcs	Tooling parts		√		OK		
Performance Check	The product meets the requirements of the design specification	Short circuit and continuity test	Full inspection	Tooling parts		√		OK		
Insertion and extraction force	SMA Header Insertion and Extraction Force	Pull-out test, the bearing capacity is greater than 2N	3pcs	Tooling parts		√		OK		
Salt spray resistant	SMA first 48 hours salt spray test	The surface is not rusted after cycle verification	3pcs	/		√		OK		
Requirements for banned and restricted substances	Tested in accordance with RoHs requirements	Products should comply with RoHs standards	/	/			√	OK		
Packaging Specifications	Place according to the drawing specifications	Visual inspection and placement as required	Full inspection	Tooling parts		√		OK		