

Development Case No.:

B2503241195:

2025.03.24

Version: A0

Acknowledgment

Customer Name: Skyworth

HX00E(Iot)

manufacturer:Sichuan Boantong Communication Technology Co., Ltd.

Bo 'an Tong Material No.: 79220043

Built-in patch antenna -2.4 G-chip-3.5 × 1.8 × 1.6mm(T3518)

Factory Signature:

Preparation	Audit	Approved
Qiu Cuiping	Zhang Guangwei	LIU Lihua

Customer Acknowledgment Signature:

Check	Audit	Approved

Boantong Contact

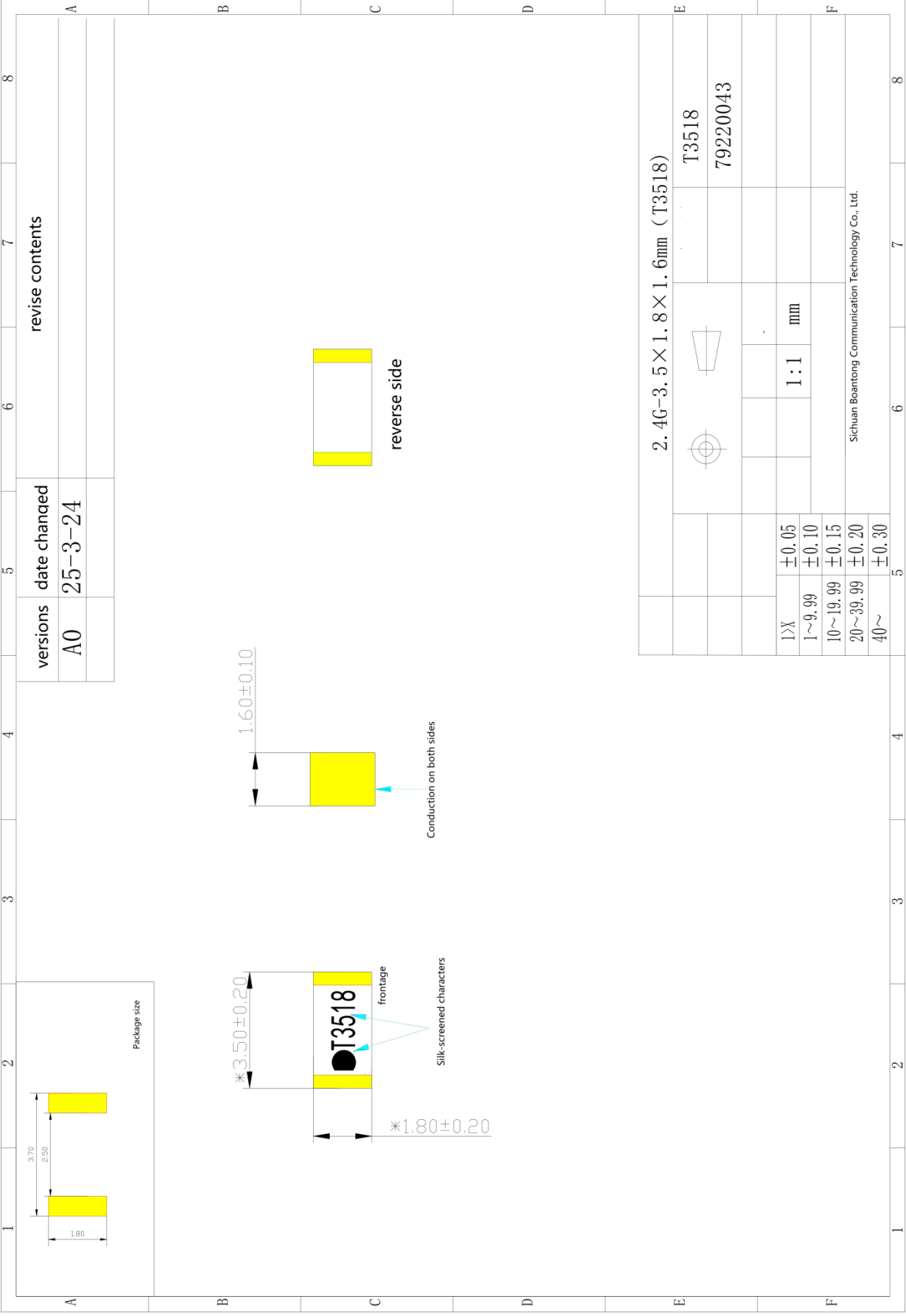
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表单编号: B&T-QR-EN-002 版本: B3

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3, Product Drawing



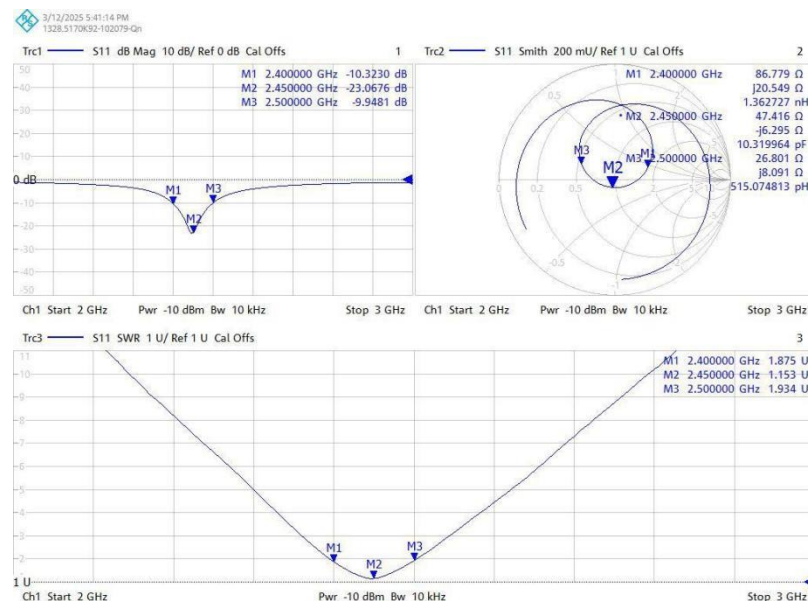
4. Performance parameters

Electrical parameters	
Frequency range	2400~2500MHz
input impedance	50 Ω ;
standing wave ratio	$\leq$ 2.0
Gain	$\geq$ 0 dBi , $\leq$ 1 dBi
Power capacity	<10W
polarization mode	linear polarization
radiation direction	Omni-directional
Mechanical parameters	
Dimensions	$3.5 \times 1.8 \times 1.6$ mm
Salt spray test	24h
Environmental parameters	
Working temperature	-30 $^{\circ}\text{C}$ ~ 65 $^{\circ}\text{C}$

5. Electrical Performance Test

Report S11 Parameter Chart of Antenna

(Complete Machine Test)



standing wave ratio data

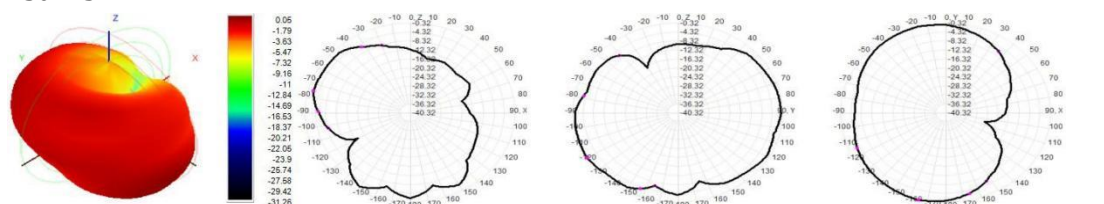
Freq/MHz	2400MH	2450MH	2500MH
	Z	Z	Z
VSWR	1.87	1.15	1.93

Antenna darkroom test data

Frequency (MHz)		
	Gain (dBi)	Efficiency (%)
2400	0.36	31.15
2410	0.28	32.85
2420	0.32	32.09
2430	0.28	35.16
2440	0.27	38.47
2450	0.45	39.45
2460	0.38	38.48
2470	0.50	36.41
2480	0.42	36.99
2490	0.46	37.09
2500	0.44	35.91

antenna pattern

2450M 3D-E1-E2-H



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6. Self Declaration of Conformance for RoHS2.0 and REACH

四川博安通通信技术有限公司 RoHS2.0 及 REACH 符合性自我声明表
Sichuan B&T Technology Co., Ltd RoHS2.0 and REACH statement of conformity

Ver2.0

产品型号: 79220043

材料名称 Material name	有毒有害物质或元素 toxic and hazardous substances or elements										备注 Remarks
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸二丁 基酯 (DBP)	邻苯二甲酸甲苯基 丁酯 (BBP)	邻苯二甲酸二(2- 乙基己基)酯 (DEHP)	邻苯二甲酸二异丁 酯 (DIBP)	
PCB-FR-4	○	○	○	○	○	○	○	○	○	○	
PCB-沉金	○	○	○	○	○	○	○	○	○	○	
拆分部件 n Part n											
○: 表示该有害物质在该部件所有均质材料中的含量均在 2011/65/EU 规定的限量要求以下。 ○: It indicates that the content of hazardous substance in all homogeneous materials of the component is below the limit requirement of 2011/65 / EU. ×: 表示该有害物质至少在该部件的某一均质材料中的含量超出 2011/65/EU 规定的限量要求。 ×: It indicates that the hazardous substances are in excess of the limits requirement of 2011/65 / EU in at least one homogeneous material of the part. (供应商应将原材料按要求进行拆分, 并按照此表格进行详细标注, 对不能满足标准要求的零部件进行具体的原因描述) (The supplier shall separate its raw materials according to the requirements and mark it in detail in accordance with this form, and describe the specific reasons for the parts that can not meet the standard requirements)											

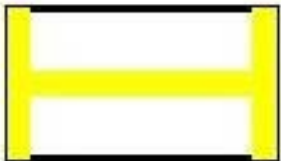
整体部件 Integral part			是否符合 (EC) No 1907/2006 标准要求 Compliance with (EC) No 1907/2006 standard requirements or not
	高关注物质 (SVHC) 禁止和限制物质 "附件 17" Prohibited and Restricted Substances "Annex 17"		是 是
原材料部件 Raw material components			是否符合 (EC) No 1907/2006 标准要求 Compliance with (EC) No 1907/2006 standard requirements or not
PCB-FR-4 PCB-沉金	PCB-FR-4	高关注物质 (SVHC)	是
		禁止和限制物质 "附件 17" Prohibited and Restricted Substances "Annex 17"	是
	PCB-沉金	高关注物质 (SVHC)	是
		禁止和限制物质 "附件 17" Prohibited and Restricted Substances "Annex 17"	是

注: 1 根据 (EC) No 1907/2006 标准要求对管控 SVHC (高关注物质) 及禁止和限制物质, 如果在标准值以内填写是, 反之则填写否。
1. Control SVHC (high concern substances) and prohibited and restricted substances according to (EC) No 1907/2006 standards, fill in Yes if it's in the standard, otherwise fill in No.
2. 请在页面加盖公司印章。
3. Please stamp the company seal on the page.

Product
Packaging
Specification

PACKING
CRITERION

Product item number: 79220043							
Product specification: built-in patch antenna -2.4 G-chip-3.5 × 1.8 × 1.6mm(T3518)							
Demander	*****			Demander	*****		
Supplier	Sichuan Boantong Communication Technology Co., Ltd.			Supplier	Sichuan Boantong Communication Technology Co., Ltd.		
Item Code	*****			Item Code	*****		
Production order number	*****			Production order number	*****		
Product name specificati	*****	Inspect or	**	Product name specificati	*****	Inspecto r	**



纸箱



1. label requirements (refer to the corresponding finished product label production requirements according to the customer name, and follow the general label requirements if there is no requirement)

The inner label is about 10cm long and 6cm wide. The outer label is about 10cm long and 6cm wide.

2. packing
requirements

Operation

description: 1.

Inner packing:

According to the actual packaging number of products PCS/carrier tape packaging,

2. Outer packing:

According to the actual packing quantity /box

Note:

1. Whether to add clapboard and pearl cotton;
2. Attachment of labels, such as ROHS;

8. Reliability Test Report