



# 产品承认书

## SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XR-SB5M7R5

我司品名:

OUR PART NAME

SMD VARIABLE COIL

送样日期:

DATE SAMPLES

数量:

QUANTITY

### 制造确认 MANUFACTURER APPROVE

拟制 DRAWN	审核 CHECKED	确认 APPROVED
Hu Fangting	RaoPing	ZhongCuilan

### 客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

XR-SB5M 7.5uH  $\pm 5\%$

规格型号 DESCRIPTION:

检查结果: ☐ 合格 ☐ 不合格

签名及盖章:

INSPECT RESULT ACCEPT REJECT

SIGNATURE AND STAMP

说明 REMARK:

如对本承认书内容有异议请提出或标记发送至我司, 本承认书在未收到异议回复时于本承认书提供一周后生效。

If you have any objection to the contents of this acknowledgment, please raise it or send the mark to us.  
The acknowledgment will become effective one week after the acknowledgment is provided in the absence of any objection.

东莞市祥如电子有限公司

DONGGUAN XIANGRU ELECTRONICS CO.,LTD

Tel: 0769-86346548 Fax: 0769-86346358

Email: dgxiangru@126.com



## 修订记录 Revision record

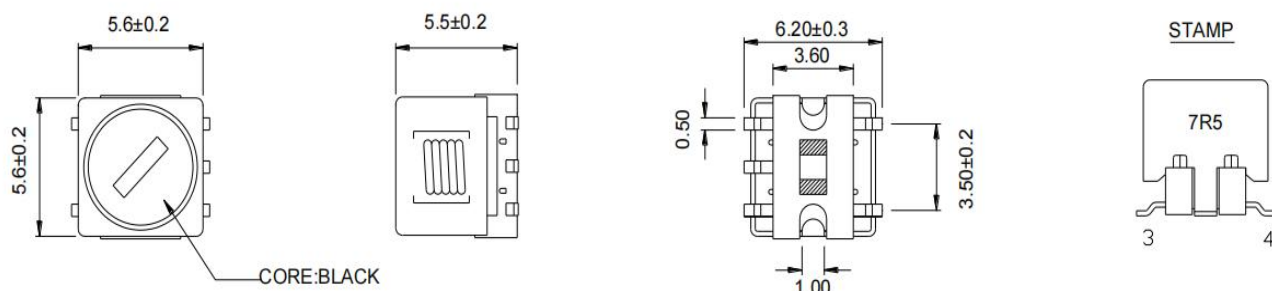
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产品承认书  
SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER		日期 DATE	2026/1/5
客户物料编号 CUSTOMER P/N		客户规格型号 DESCRIPTION	XR-SB5M 7.5uH ±5%
我司物料编号 OUR PART NO	XR-SB5M7R5	我司品名 OUR PART NAME	SMD VARIABLE COIL

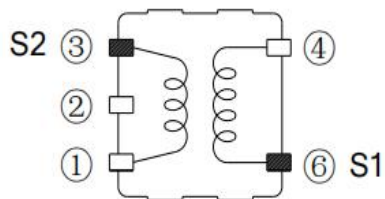
1. 外观尺寸 Appearance of size

单位 Unit: mm



(以上尺寸为手工测量只做参考详细尺寸以实物为准)

2.CONNECTON(BOTTOM):



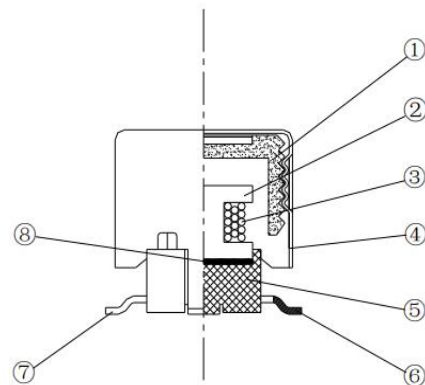
3.TURNS, WIRE:

Terminal No.	Number of turns	Kind of wire
6—4	13 turns	0.08mm P180
3—1	20 turns	0.08mm P180

Denote which windings are connected with which terminals,as seen from the bottom views. "S" denotes the start of a windings

4.MATERIAL LIST:

NO.	Components	Materials	Manufacturer
1	Cap core	Ferrite core Y9P THP	FENGYIN
2	Drum core	Ferrite core Y8P DR	FENGYIN
3	Wire	0.08mm P180	ELEKTRISOLA
4	Case	C2680(H65) Brass with Solder plating	
5	Base	PMC	
6	Solder	SN-CU/HYS9937C-1	HORYISON
7	Terminal	CP-Wire Φ0.5mm Solder Plating	
8	Glue	Epoxy Resin S-9001-6G	
9			
10			
11			



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**5.CHARACTERISTICS:**

Operating temperature range: -40℃ to +85℃

Storage temperature range: -40℃ to +85℃

Core Torque: 20~350gf·cm Within tuning range (including starting torque)

**5.1 Electrical characteristics:**

NO.	Item	Conditions	Specifications
1	Operating frequency		MHz
2	Rated inductance	The inductance between 1 and 3 shall be measured by measuring frequency 1 MHz.	7.5 uH
3	Adjustable range	Rated inductance	± 5% or more
4	Q without load	The Q value between 1 and 3 shall be measured by measuring frequency 1 MHz .  However, measurements for coils with the internal capacitors shall be made after removing the capacitor when the resonance point is reached. For the coil without the internal capacitor, the measurement shall be made adjusting rated inductance.	40 min
5	Dielectrics strength	100 V a.c. or 100 V d.c. shall be applied for 1 min, between wires, between wire and case, and between wire and core. Trip current :2mA	Without damage
6	Insulation resistance	100 V d.c. shall be applied for 1 min, after which measurement shall be made, between wire and case, and between wire and core.	100MΩ or more

**5.2 Endurance characteristics:**

NO.	Item	Conditions		Specifications
1	Solderability	Terminals dipped into solder bath of temperature 245℃±3℃ for 2~ 3 s.		Solder shall cover a minimum 95% of surface being immersed.
2	Resistance to soldering heat	Solder bath method solder temperature: 260± 5℃, Immersion time: 10± 1s.	Rated inductance	Relative to the value before test ± 1.0%
			Q without load	Relative to the value before test ± 20%
			Appearance	Without distinct damage.

## 产品承认书

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#### 5.2 Endurance characteristics:

NO.	Item	Conditions		Specifications
3	Vibration	Only endurance conditioning by sweepings shall be made. The entire frequency range, from 10 Hz to 55 Hz and returned to 10 Hz, shall be transversed in 1 min. Amplitude (total excursion): 1.5 mm. This motion shall be applied for a period of 2 h in each of 3 mutually perpendicular directions (a total of 6 h).	Rated inductance	Relative to the value before test $\pm 1.0\%$
			Q without load	Relative to the value before test $\pm 20\%$
			Appearance	Without distinct damage.
4	Shock	Pulse shape : Half sine Peak acceleration : 981 m/s <sup>2</sup> Duration of pulse : 6 ms Three successive shocks shall be applied in both directions of 6 mutually perpendicular axis (a total of 18 shocks). For other procedures, refer to IEC	Rated inductance	Relative to the value before test $\pm 1.0\%$
			Q without load	Relative to the value before test $\pm 20\%$
			Appearance	Without distinct damage.
5	Cold	The coil shall be stored at a temperature of $-25 \pm 3^{\circ}\text{C}$ for 2 h. And then the coil shall be subjected to standard atmospheric conditions for 1 h. after which measurement shall be made. The measurement shall be made within 1 h after the recovery period.	Rated inductance	Relative to the value before test $\pm 1.0\%$
			Q without load	Relative to the value before test $\pm 20\%$
			Appearance	Without distinct damage.
6		The coil shall be stored at a temperature of $85 \pm 2^{\circ}\text{C}$ for 2 h. And then the coil shall be subjected to standard atmospheric conditions for 1 h. after which measurement shall be made. The measurement shall be made within 1 h after the recovery period.	Rated inductance	Relative to the value before test $\pm 1.0\%$
			Q without load	Relative to the value before test $\pm 20\%$
			Appearance	Without distinct damage.

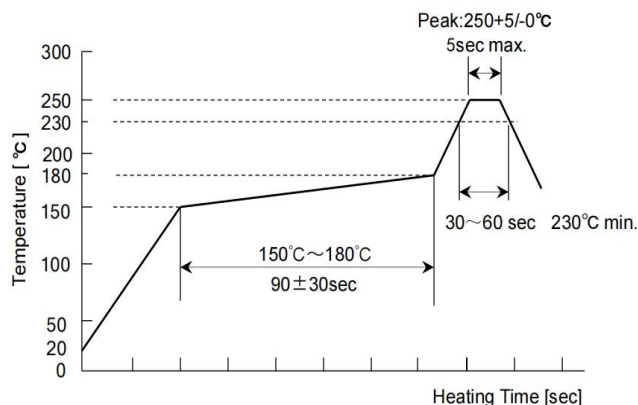
# 产品承认书

## SPECIFICATION FOR APPROVAL

### 5.2 Endurance characteristics:

NO.	Item	Conditions	Specifications
5	Damp heat (steady state)	The coil shall be stored at a temperature of $40 \pm 2^\circ\text{C}$ with relative humidity of 90% to 95% for $96 \pm 4\text{h}$ . And then the coil shall be subjected to standard atmospheric conditions for 1 h. after which measurement shall be made. The measurement shall be made within 1 h after the recovery period.	Rated inductance
			Relative to the value before test $\pm 1.0\%$
			Q without load
			Relative to the value before test $\pm 20\%$
			Dielectrc
			Clause 5.1.5 shall be satisfied.
			Insulation resistance
			Clause 5.1.6 shall be satisfied.
			Appearance
			Without distinct damage.

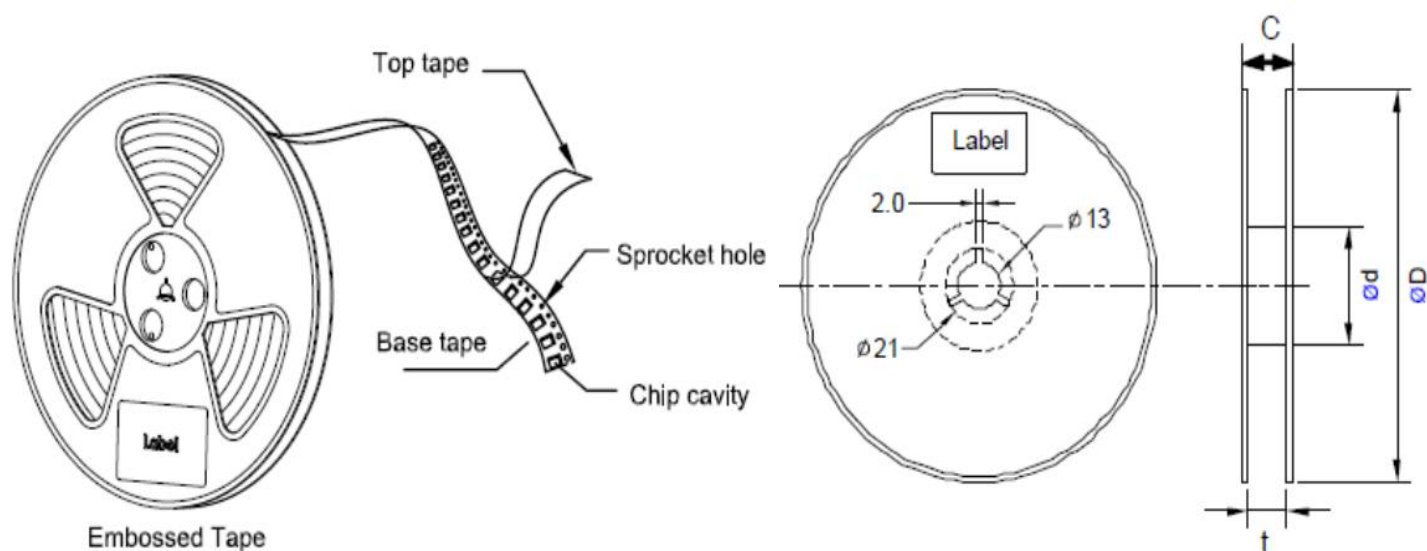
### 6 RECOMMENDED REFLOW CONDITION (Pb free solder):



### 7 PACKAGING STYLE:

#### 7.1 TAPE MATERIAL

#### 7.2 REEL DIMENSIONS (Unit:mm)



## 注意事项 Matters needing attention

1、本公司产品适用于 AV 设备、OA 设备、家电、信息服务等一般电子设备中。

Our products are designed and promoted for use in general electronic devices such as audio-video equipment, office automation equipment, home appliance and information service.

2、当本公司的产品使用在一般电子设备以外的领域时，对于此所引发的设备失效我司将不承担任何法律责任。

In case of using the product for the purpose other than general electronics devices, we shall not be held liable for any dysfunctions in or damage to the equipment with which the product is used.

3、本承认书只保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时，请贵司对使用在贵司电路上的产品情况进行了有效评价和确认。

Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

4、不要对产品施加过大的振动或机械冲击；

Do not apply excessive vibration or mechanical shock to products.

5、为防止断线，请不要使用锋利的物体接触线圈，如镊子；

Do not touch wire with sharp objects such as tweezers to prevent wire breakage.

6、在产品贴装时不要使用过大的压力，避免磁芯断裂。

Do not apply excessive stress to products mounted on boards to prevent core breakage.

7、为保证端子电极的焊接特性和包装材料处于良好状态，请于本公司发货后 6 个月内使用本产品。同时，由于端子电极的焊接特性会随时间发生变化，如果贮存时间超过 6 个月，请首先确认其焊接特性后再安装使用。

To maintain the solderability of terminal electrodes and to keep the packing material in good condition, product should be used within 6 months from the time of delivery. And the solderability of products electrodes may decrease as time passes, so in case of storage over 6 months, solderability shall be checked before actual usage.

8、存放货物的仓库应满足以下条件 Store products in a warehouse in compliance with the following condition:

条件 Conditions	元件含包装物 Packing status	元件自身 Component itself
温度 Temperature	-25~+40℃	-25~+85℃
湿度 Humidity	30~70%RH	30~70%RH

9、不要使产品遭受温度和湿度的快速变化。

Do not subject products to rapid changes in temperature and humidity.

10、不要将产品存放在化学环境中，如硫酸气体或碱性气体中，否则会降低电极端子的焊接特性和使电感器腐蚀。

Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.

11、为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。

Store products on pallets to protect from humidity, dust, etc

12、产品应避免热冲击、振动以及直接光照等等。

Avoid heat shock, vibration, direct sunlight, etc.