



# 产品承认书 SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XRRF7342-4R7M

我司品名:

OUR PART NAME

Smd Coupling Inductor

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    | LiZhengxiong |

## 客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

规格型号 DESCRIPTION:

XRRF7342 4.7uH ±20% 4.6A

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

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## 修订记录 Revision record

[illegible]

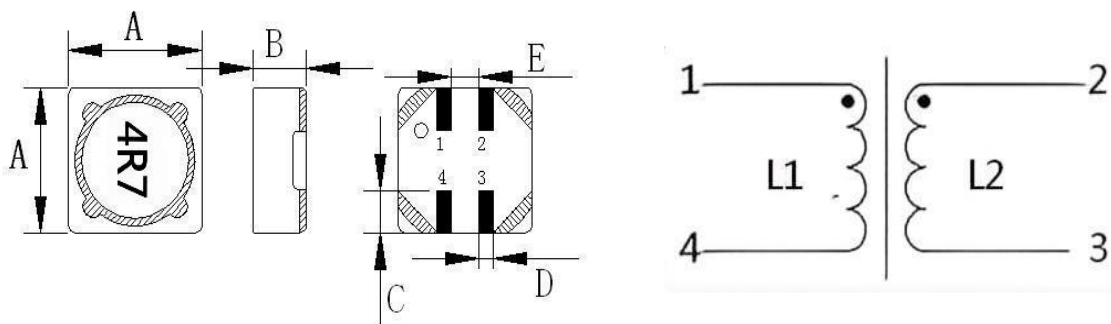
## 产品承认书 SPECIFICATION FOR APPROVAL

|                        |               |                       |                          |
|------------------------|---------------|-----------------------|--------------------------|
| 客户名称<br>CUSTOMER       |               | 日期<br>DATE            | 2025/8/10                |
| 客户物料编号<br>CUSTOMER P/N |               | 客户规格型号<br>DESCRIPTION | XRRF7342 4.7uH ±20% 4.6A |
| 我司物料编号<br>OUR PART NO  | XRRF7342-4R7M | 我司品名<br>OUR PART NAME | Smd Coupling Inductor    |

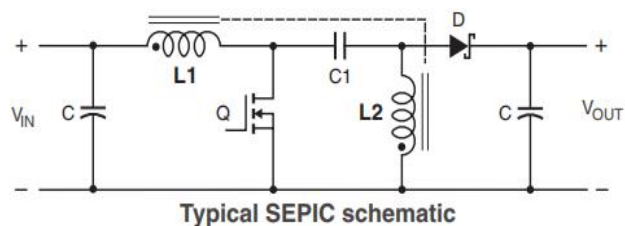
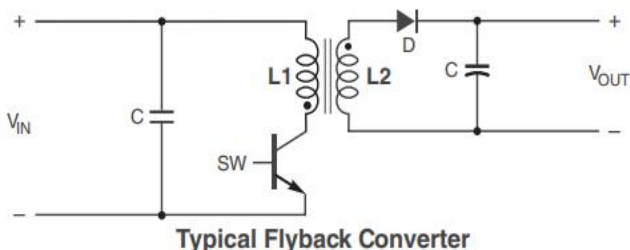
- Tight coupling ( $k \geq 0.97$ ) and 200V isolation make the RF7342 series of coupled inductors ideal for use in a variety of circuits including flyback, multi-output buck and SEPIC.
- They provide high inductance, high efficiency and excellent current handling in a rugged, low cost part.
- Can also be used as two single inductors connected in series or parallel, as a common mode choke or as a 1:1 transformer.

(1)外形尺寸: (单位: mm)

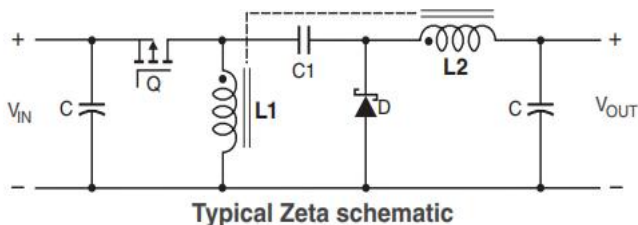
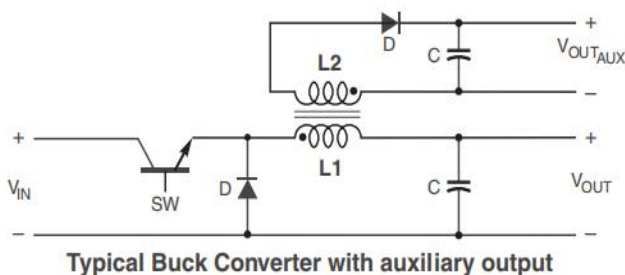
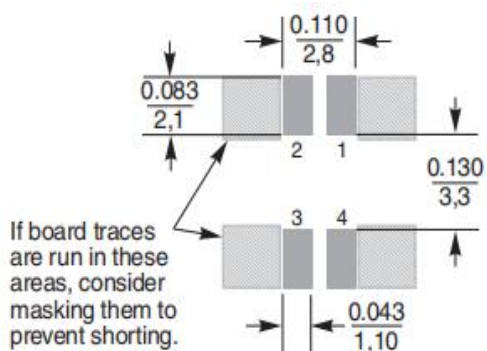
电性图:



| A       | B      | C        | D       | E       | F |
|---------|--------|----------|---------|---------|---|
| 7.3±0.3 | 4.8Max | 3.28Ref. | 1.1 Ref | 1.1 Ref | / |



Recommended Land Pattern:



## 产品承认书

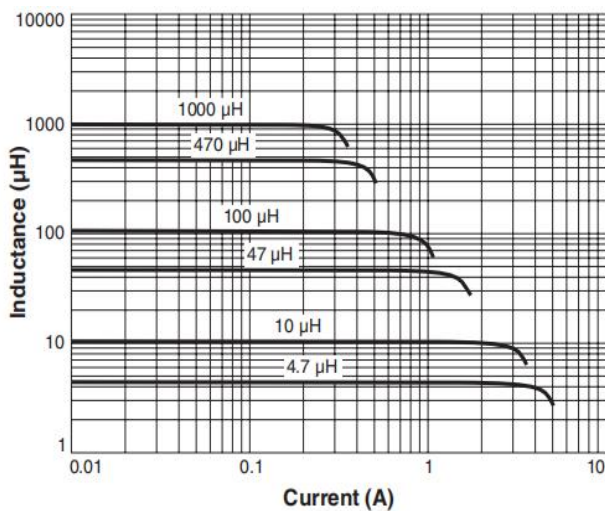
### SPECIFICATION FOR APPROVAL

|                        |               |                       |                          |
|------------------------|---------------|-----------------------|--------------------------|
| 客户名称<br>CUSTOMER       |               | 日期<br>DATE            | 2025/8/10                |
| 客户物料编号<br>CUSTOMER P/N |               | 客户规格型号<br>DESCRIPTION | XRRF7342 4.7uH ±20% 4.6A |
| 我司物料编号<br>OUR PART NO  | XRRF7342-4R7M | 我司品名<br>OUR PART NAME | Smd Coupling Inductor    |

#### 电性参数 Electrical parameters:

| PART NO.      | Inductance <sup>2</sup><br>±20%(uH) | DCR max <sup>3</sup><br>(Ω) | SRF typ <sup>4</sup><br>(MHz) | Coupling<br>coefficient<br>typ | Leakage<br>L typ <sup>5</sup><br>(uH) | Isat (A) <sup>6</sup> |             |             | Irms (A)                      |                             |
|---------------|-------------------------------------|-----------------------------|-------------------------------|--------------------------------|---------------------------------------|-----------------------|-------------|-------------|-------------------------------|-----------------------------|
|               |                                     |                             |                               |                                |                                       | 10%<br>drop           | 20%<br>drop | 30%<br>drop | both<br>windings <sup>7</sup> | one<br>winding <sup>8</sup> |
| XRRF7342-4R7M | 4.7                                 | 0.051                       | 35                            | 0.99                           | 0.11                                  | 4.10                  | 4.30        | 4.60        | 1.74                          | 2.46                        |

#### Typical L vs Current:



1.Termination: L = RoHS compliant matte tin over nickel over phos bronze.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

2. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 A on an Agilent/HP 4284A LCR meter or equivalent. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.

3. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.

4. SRF measured using an Agilent/HP 4191A or equivalent. When leads are connected in parallel, SRF is the same value.

5. Leakage inductance is for L1 and is measured with L2 shorted.

6. DC current, at which the inductance drops the specified amount from its value without current. It is the sum of the current flowing in both windings.

#### Core material Ferrite:

1.Core and winding loss Go to online calculator.

2.Terminations RoHS compliant matte tin over nickel over phos bronze. Other terminations available at additional cost.

3.Weight 0.76 – 0.87g.

4.Ambient temperature –40°C to +85°C with (40°C rise) Irms current.

5.Maximum part temperature +125°C (ambient + temp rise).

6.Storage temperature Component: –40°C to +125°C;

Tape and reel packaging: –40°C to +80°C;

7.Winding to winding isolation 200 Vrms, one minute.

8.Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles.

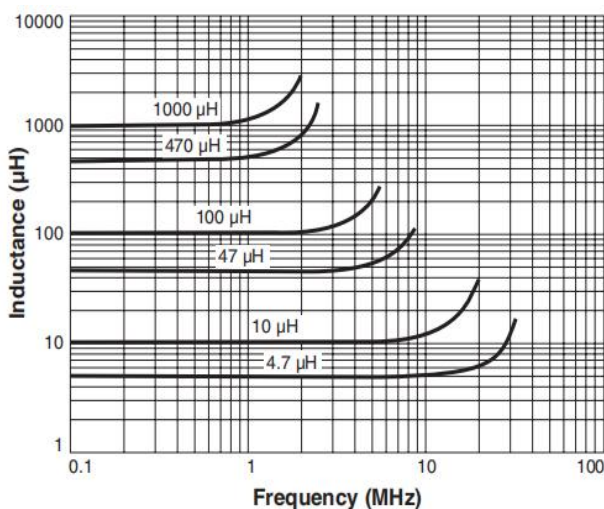
9.Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity).

10.Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332.

11.Packaging 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.4 mm thick, 12 mm pocket spacing, 4.9 mm pocket depth.

12.PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787\_PCB\_Washing.pdf.

#### Typical L vs Frequency:





## 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**

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.**