

射频陶瓷绕线电感

RF Inductor (Ceramic)



特性

Characteristics

高Q值高SRF的陶瓷材料.

High Q value and high self-resonant frequency with ceramic material

小尺寸，表面贴装

Small chip suitable for surface mounting

高精度，高可靠性

Tighten inductance tolerance and high reliability

应用

Application

移动电话，TD-LTE，5G通讯

Mobile phone, TD-LTE, 5G communication

高频线路的通讯设备

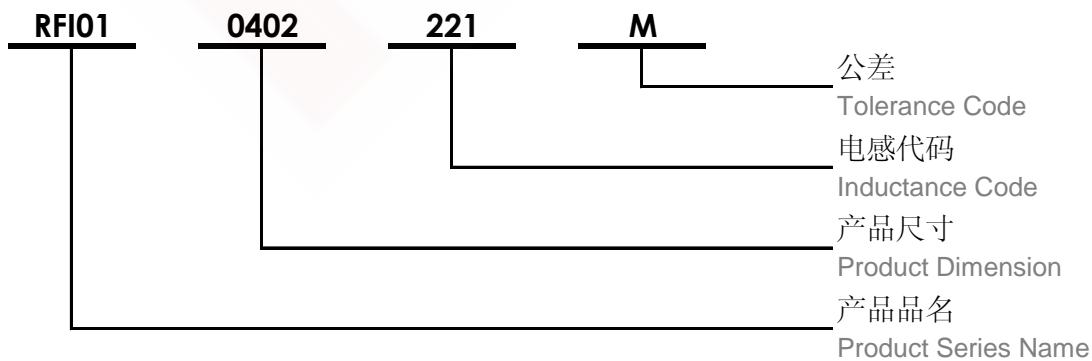
High frequency circuit in communication equipments

蓝牙，无线宽带网络

Bluetooth, W-Lan, Broadband network

产品品名介绍

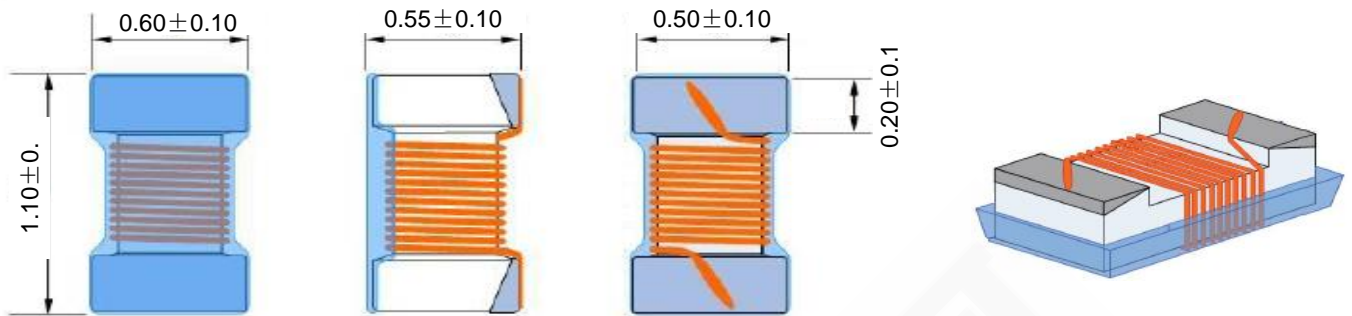
Product Number Structure





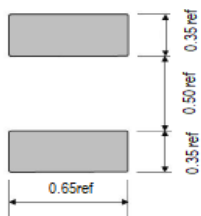
尺寸

Dimension (mm)



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



电性特性

Electrical Properties

型号 Part No.	电感 Inductance nH	温升电流 Rated Current I _R max (mA)	直流电阻 DC Resistance DCR _{max} (Ω)	Q 值 Q Factor min.	自共振频率 Self-Resonant Freq. SRF _{min} (MHz)
RFI01-0402-1R0 □	1.00 C,S,D,K	650	0.085	30.00	> 6,000
RFI01-0402-2R2 □	2.20 C,S,D,J,K	820	0.058	30.00	> 6,000
RFI01-0402-3R3 □	3.30 C,S,D,J,K	790	0.063	30.00	> 6,000
RFI01-0402-4R7 □	4.70 C,S,D,J,K	570	0.120	30.00	> 6,000
RFI01-0402-6R8 □	6.80 J,K	610	0.105	30.00	6,000
RFI01-0402-100 □	10.00 J,K	510	0.150	30.00	5,500
RFI01-0402-150 □	15.00 J,K	430	0.210	30.00	5,000
RFI01-0402-220 □	22.00 J,K	330	0.360	30.00	4,000
RFI01-0402-330 □	33.00 J,K	260	0.550	30.00	3,200
RFI01-0402-470 □	47.00 J,K	200	0.950	30.00	2,900
RFI01-0402-680 □	68.00 J,K	170	1.350	30.00	2,500
RFI01-0402-101 □	100.00 J,K	130	2.060	30.00	1,500
RFI01-0402-151 □	150.00 J,K	240	2.000	30.00	1,140

* □ : 请指定电感公差

Please specify the inductance tolerance code

(B: ±0.10nH, C: ±0.20nH, S: ±0.30nH, D: ±0.50nH, G: ±2.00%, H: ±3.00%, J: ±5.00%, K: ±10.00%)

测试状态

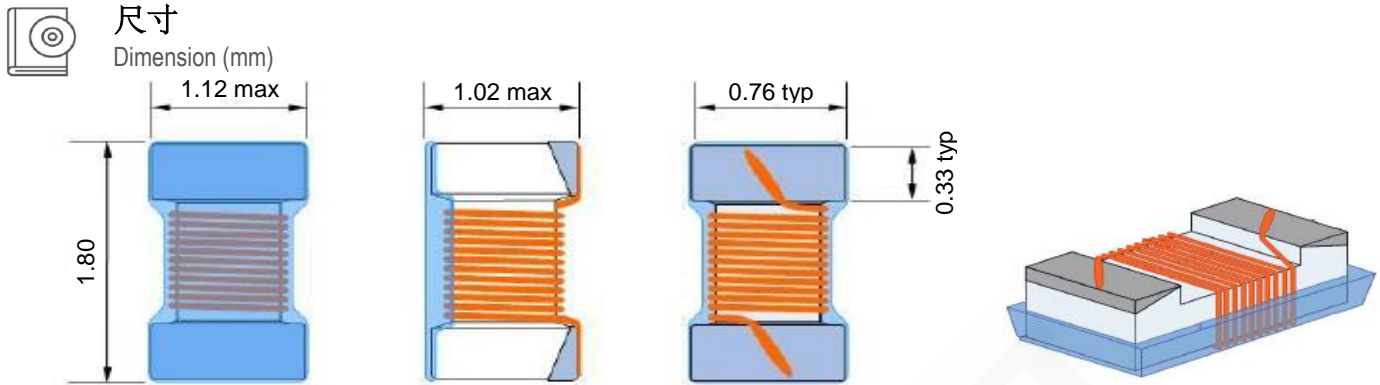
Test Condition

☆ 工作温度: -40°C ~ +105°C

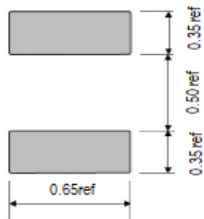
Operating Temperature: -40°C ~ +105°C

RFI01 SERIES

RF Inductor (Ceramic)



 **焊盘推荐**
Land Pattern Recommended (mm)



 **示意图**
Schematics



 **电性特性**
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RFI01-0603-2R2 □	2.20 C,S,D,J,K	700	0.150	13.00	> 6,000
RFI01-0603-3R3 □	3.30 C,S,D,J,K	850	0.059	25.00	> 6,000
RFI01-0603-4R7 □	4.70 C,S,D,J,K	800	0.065	25.00	> 6,000
RFI01-0603-6R8 □	6.80 H,J,K	700	0.095	29.00	> 6,000
RFI01-0603-100 □	10.00 H,J,K	600	0.130	30.00	6,000
RFI01-0603-150 □	15.00 H,J,K	550	0.150	37.00	6,000
RFI01-0603-220 □	22.00 H,J,K	490	0.190	38.00	4,600
RFI01-0603-330 □	33.00 H,J,K	470	0.210	40.00	3,200
RFI01-0603-470 □	47.00 H,J,K	400	0.270	36.00	2,600
RFI01-0603-680 □	68.00 H,J,K	350	0.380	36.00	2,200
RFI01-0603-101 □	100.00 H,J,K	260	0.660	31.00	1,800
RFI01-0603-151 □	150.00 H,J,K	200	1.120	32.00	1,400
RFI01-0603-221 □	220.00 H,J,K	140	2.100	25.00	1,200
RFI01-0603-331 □	330.00 H,J,K	100	4.500	26.00	800
RFI01-0603-471 □	470.00 H,J,K	90	5.700	27.00	700

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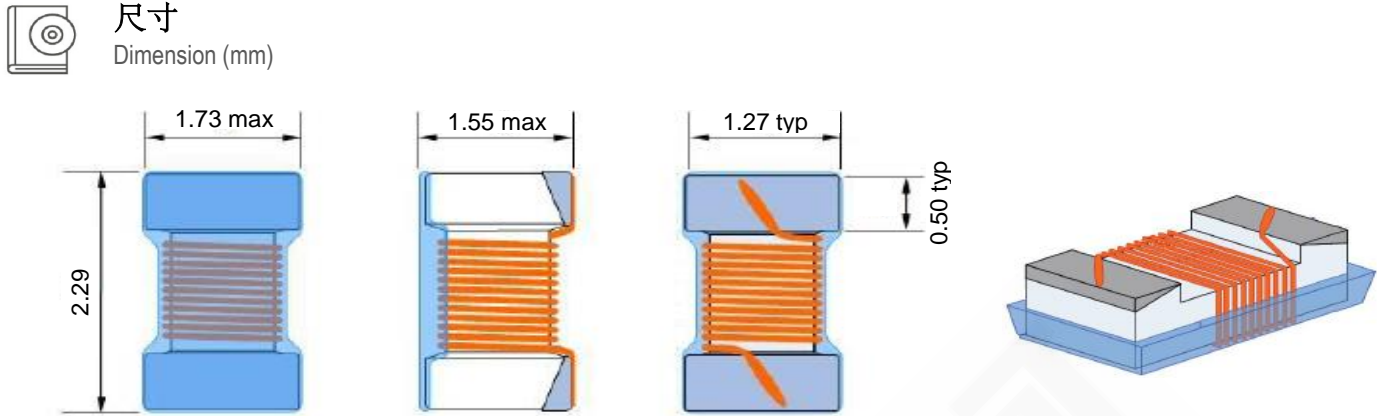
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测试状态

Test Condition

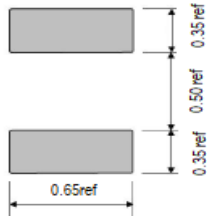
☆ 工作温度: -40°C ~ +105°C

Operating Temperature: -40°C ~ +105°C



焊盘推荐

Land Pattern Recommended (mm)



示意图

Schematics



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RFI01-0805-1R0 □	1.00 G,J,K	150	2.500	20.00	200
RFI01-0805-1R5 □	1.50 G,J,K	100	2.900	15.00	130
RFI01-0805-2R2 □	2.20 G,J,K	100	4.600	15.00	70
RFI01-0805-3R3 □	3.30 G,J,K	50	5.400	10.00	70
RFI01-0805-4R7 □	4.70 G,J,K	30	8.200	10.00	70

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测试状态

Test Condition

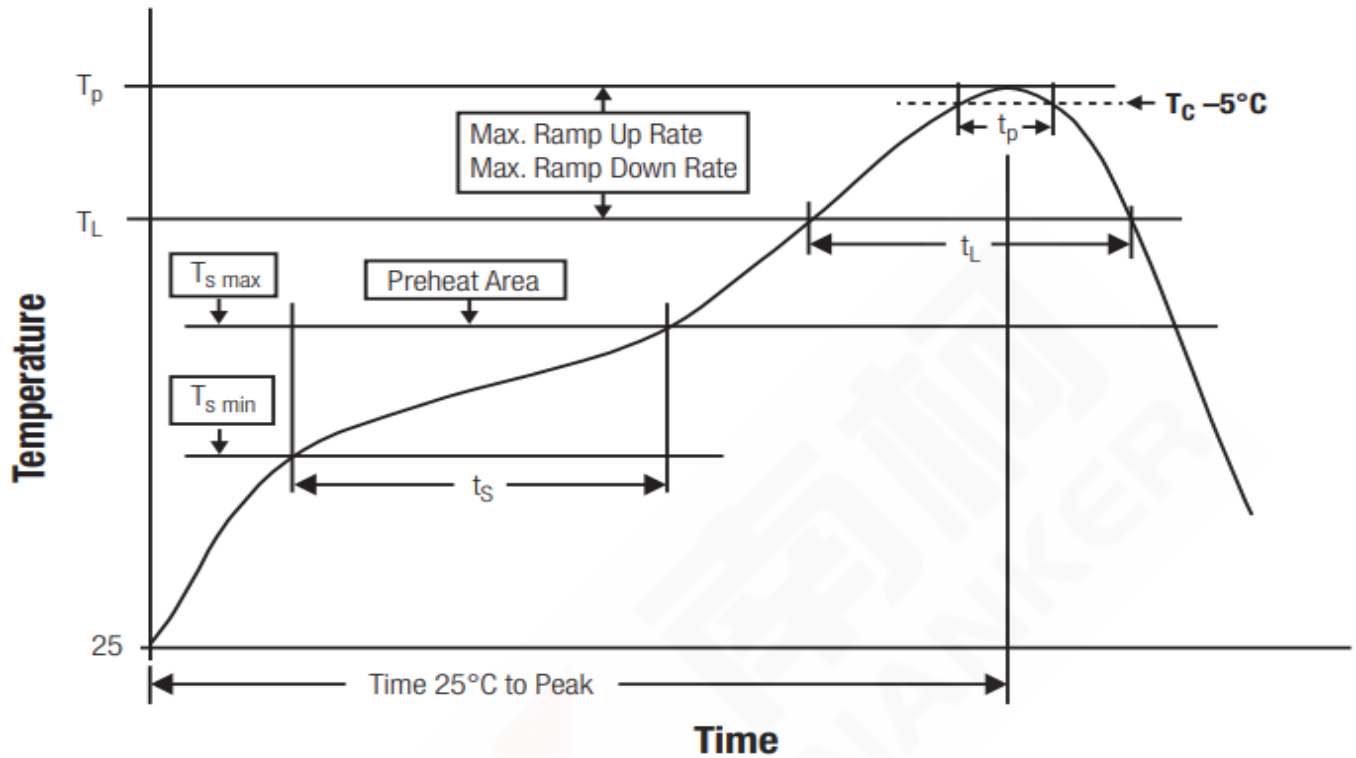
☆ 工作温度: -40°C ~ +105°C

Operating Temperature: -40°C ~ +105°C



回流焊曲线图

Classification Reflow Profile for SMT Components



封装体峰值温度(Tp)分类

Classification Reflow Soldering Profile:

	封装厚度 Package Thickness	封装体积 Package Volume		
		<350 mm ³	350~2,000 mm ³	>2,000 mm ³
无铅装配 PB-Free Assembly	<1.60mm	260°C	260°C	260°C
	1.60~2.50mm	260°C	250°C	245°C
	>2.50mm	260°C	245°C	245°C

- ◆ 回流焊参照标准 IPC/JEDEC J-STD-020D。
Reflow is refer to standard IPC/JEDEC J-STD-020D.