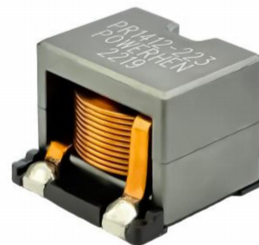


■PR1412

Features 特点

- Susing flat wire, and SMD type. 采用扁平线, 贴片类型
- Low radiation noise by magnetically shielded construction
闭合磁路封装, 低辐射
- High current, Low resistance. 大电流, 低电阻
- Operating temperature : -40°C ~+125°C. 工作温度: -40°C ~+125°C
- Tape and reel packaging: -40°C to +80°C 卷带包装: -40°C 至 +80°C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
耐焊接热 最多三个 40 秒回流 +260°C, 部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
湿气敏感度等级 (MSL) 1 (在 <30°C / 85% 相对湿度时的存放寿命无限制)



Applications 应用

- high efficiency DC/DC converters. 高效 DC/DC 转换器
- Single and polyphase buck converters. 单相、多相降压转换器
- Filter for audio applications. 音频滤波应用
- Optimized for high current boost applications. 大电流升压应用优化

Electrical characteristics 电气性能

Part number	Inductance① μH ±10%	DCR (mΩ)② typ max		SRF (MHz) ③ 自谐振频率		Isat(A) ④ 饱和电流 A typ				Irms(A)⑤ 温升电流 A typ.	
				typical	10% drop	20% drop	30% drop	20°Crise	40°Crise		
PR1412-472KL	4.7	2.8	3.1	21	18.3	19.6	20.1	11.4	18.1		
PR1412-103KL	10	4.1	4.5	18	11	12.8	13.2	9.3	15.7		
PR1412-223KL	22	7.1	7.8	17	6.8	7.6	8	7.5	12		

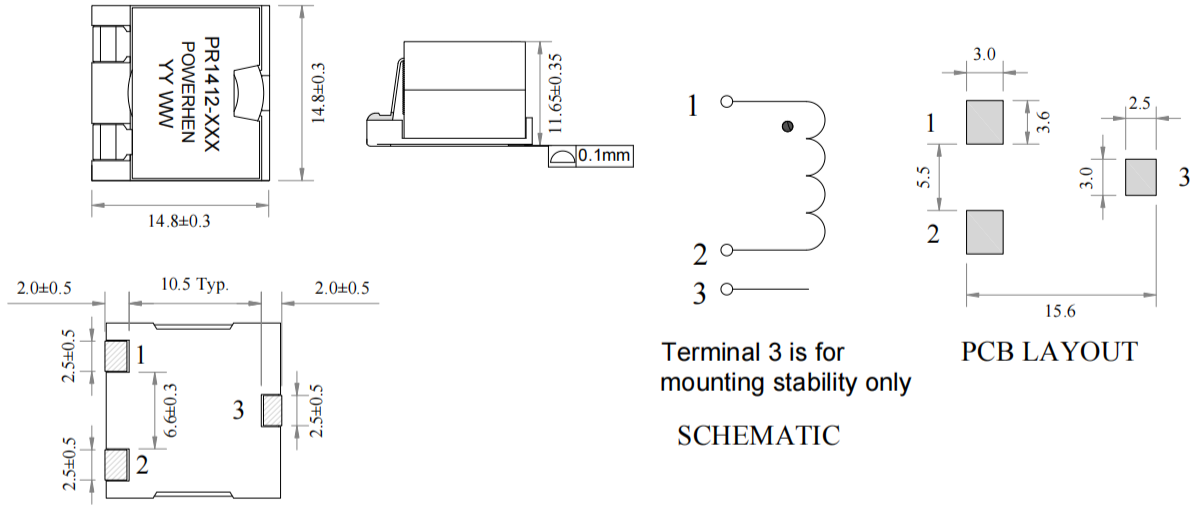
Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz 0.1V
- ② DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.
Reference ambient temperature 25°C
- ③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
- ④ DC current at 25°C that causes the specified inductance drop from its value without current.
- ⑤ Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- ⑥ Electrical specifications at 25°C

备注

- ① 感量测试采用 Agilent 4284A 数字电桥或同等仪器;
测试频率 100KHz 0.1V
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器;
环境温度 25°C
- ③ SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- ④ 直流电流在 25°C, 加载导致指定电感从没有电流的值下降。
- ⑤ 导致指定温度从 25°C 环境温度上升的电流。此信息仅供参考, 不代表绝对最大额定值。
- ⑥ 25°C 时的电气规格

Dimension 结构尺寸



Electrical Characteristic Curve 电气特性曲线

