

■ PR2400 Series

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 ~ $+125^{\circ}\text{C}$. 工作温度: -40°C ~ $+125^{\circ}\text{C}$
- Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$ 卷带包装: -40°C 至 $+80^{\circ}\text{C}$
- Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles
耐焊接热 最多三个 40 秒回流 $+260^{\circ}\text{C}$, 部件在循环之间冷却至室温
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)
湿气敏感度等级 (MSL) 1 (在 $<30^{\circ}\text{C}$ 时的无限车间寿命/ 85% 相对湿度)



Applications

- 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

Part number 料号	Inductance ^① 电感量 $\mu\text{H} \pm 10\%$	DCR ($\text{m}\Omega$) ^② 直流电阻		SRF ^③ 自谐频率 (MHz) reference	Isat ^④ 直流饱和电流 A typical			Irms ^⑤ 温升电流 A typical	
		typ	max		drop10%	drop20%	drop30%	rise20 $^{\circ}\text{C}$	rise40 $^{\circ}\text{C}$
PR2413-102KL	1.0	0.45	0.5	60	69.2	78.5	80.2	38.2	54.4
PR2413-152KL	1.5	0.65	0.75	50	68.8	79.3	81.4	36.8	47.1
PR2416-222KL	2.2	0.85	0.94	40	61.2	67.9	69.1	34.7	44.9
PR2416-332KL	3.3	1.0	1.1	25	52.4	58.3	60.7	30.1	40.3
PR2419-472KL	4.7	1.25	1.38	20	45.9	46.4	47.1	26.8	37.3
PR2419-682KL	6.8	1.45	1.6	18	37.2	37.9	38.4	24.0	35.0
PR2422-103KL	10	1.85	2.04	15	33.1	34.9	35.8	21.8	32.1
PR2418-153KL	15	2.8	3.08	13	24.1	24.6	25.2	18.2	25.5
PR2421-203KL	20	3.4	3.74	11	20.9	21.5	22.1	16.4	24.0
PR2421-303KL	30	3.6	3.96	8	15.2	16.9	17.5	14.8	22.9

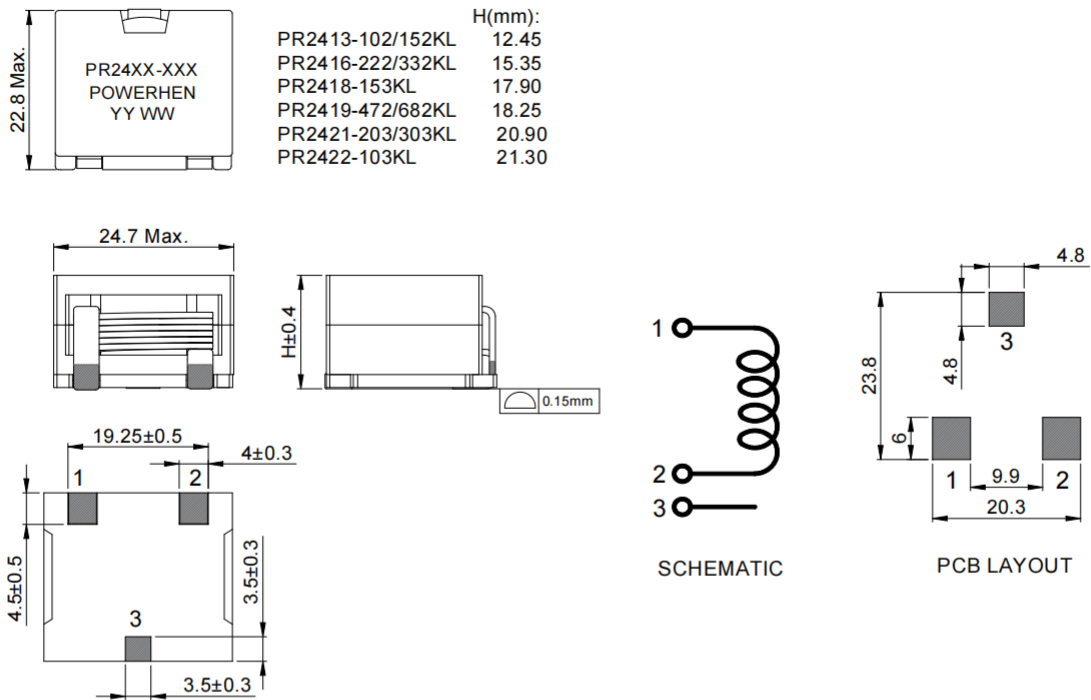
Remark

- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
- 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 16093A 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

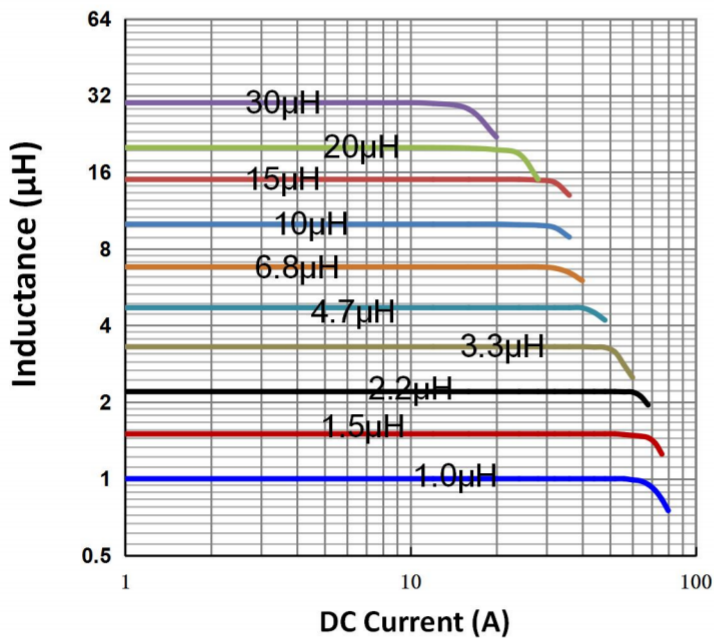
备注

- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器;
测试频率 100KHz
- 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 16093A 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



■ PR2400 Series Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]

