

SMD HIGH CURRENT POWER INDUCTOR

贴片大电流功率电感

■ PR2700 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°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 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	Inductance①	DCR (mΩ)②		SRF ③	Isat ④			Irms⑤	
	电感量	直流电阻		自谐频率	直流饱和电流			温升电流	
	μH ±10%	typ	max	(MHz)	A typical			A typiac	
				reference	drop10%	drop20%	drop30%	rise20℃	rise40℃
PR2712-102KL	1.0	0.46	0.51	45	101.5	103	104	38.0	52.0
PR2712-152KL	1.5	0.46	0.51	35	67.0	71.0	72.0	38.2	52.5
PR2714-222KL	2.2	0.68	0.75	30	68.0	72.0	73.0	35.0	46.5
PR2715-332KL	3.3	0.88	0.97	25	60.3	62.2	62.8	32.0	42.5
PR2715-472KL	4.7	1.39	1.53	20	53.5	55.4	56.2	29.0	37.0
PR2716-682KL	6.8	1.66	1.83	15.5	44.0	45.9	46.8	27.8	34.5
PR2717-103KL	10	1.92	2.12	15	34.8	35.6	36.4	25.0	33.0
PR2717-153KL	15	1.92	2.12	9	22.9	24.4	25.2	25.0	33.0

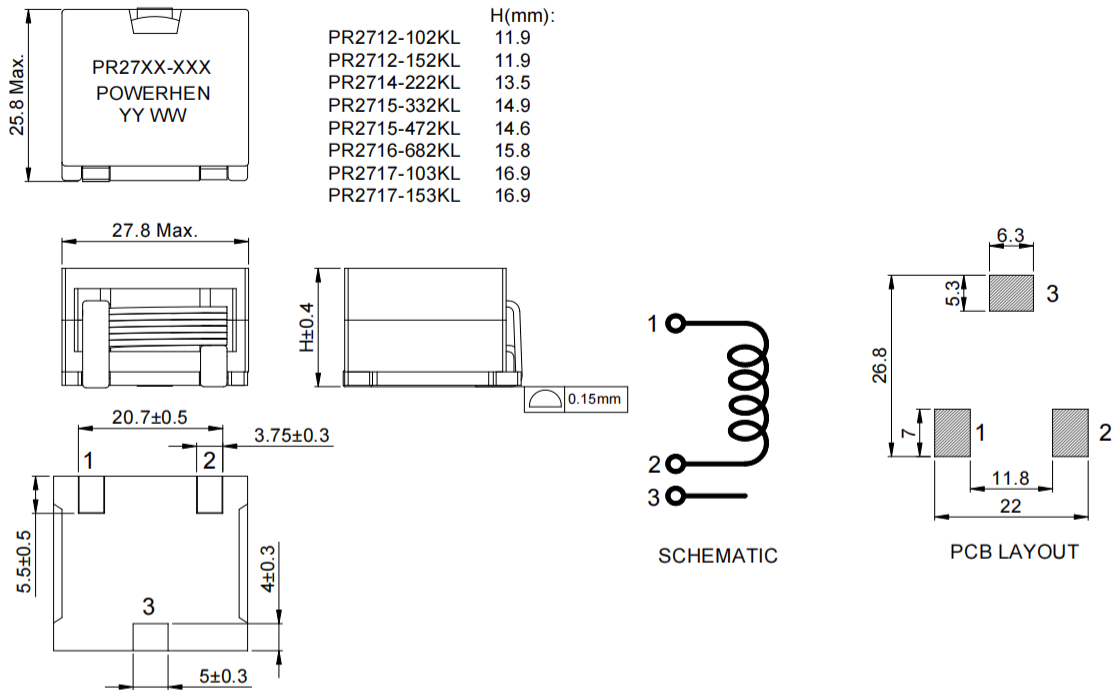
Remark

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

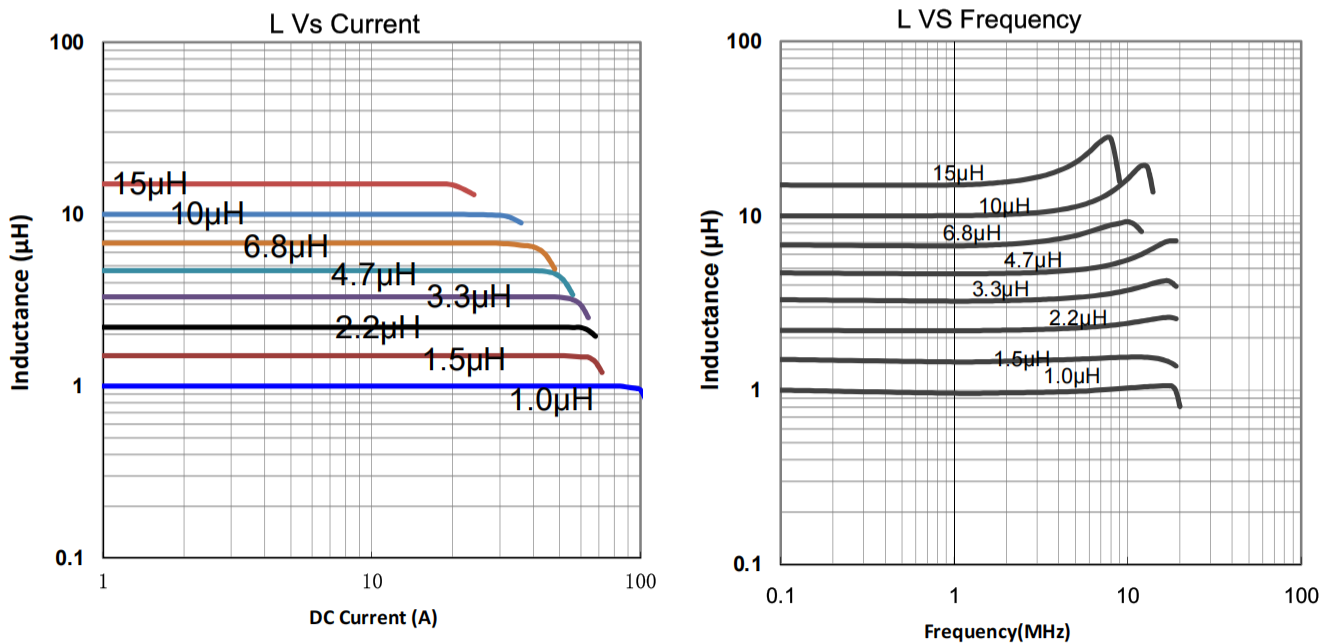
备注

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



■PR2700 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]

