

■PG103 Series

Features 特点

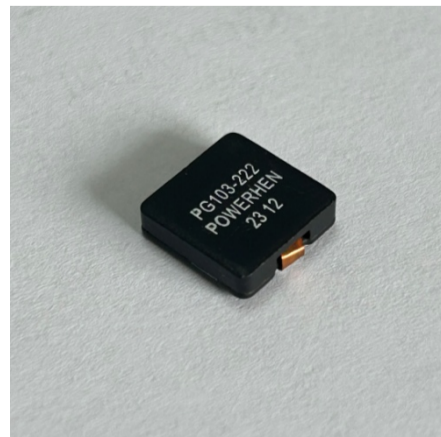
- Susing flat wire, and SMD type. 采用扁平线，贴片类型
- Low radiation noise by magnetically shielded construction 闭合磁路封装，低辐射
- High current, Low resistance. 大电流，低电阻
- Operating temperature : -40°C~+125°C. 工作温度：-40°C~+125°C
- Tape and reel packaging: -40°C to +80°C 卷带包装：-40°C 至 +80°C
- Resistance to soldering 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 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 电气特性



Part number	① Inductance µH ± 20%	② DC resistance mΩ		③ SRF typical MHz	④ Isat A typical			⑤ Irms A typical	
		typ	max.		10% drop	20% drop	30% drop	20°C rise	40°C rise
PG103-201ML	0.15	0.58	0.64	257	25	37	50	43	52
PG103-331ML	0.33	1.1	1.22	170	37	45	56	20	31
PG103-561ML	0.56	1.61	1.78	100	10	16.6	25	20	31
PG103-681ML	0.68	3.3	3.65	80	22.5	35	42	13	19.5
PG103-102ML	1.0	5.3	5.83	63	8	13	18	13	19.5
PG103-122ML	1.2	7.3	10.1	53	15	25	32	10	17.5
PG103-152ML	1.5	10.6	11.7	46	7	10	14.6	10	17.5
PG103-222ML	2.2	14.1	15.5	33	6	9.5	13	7	12.5

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 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

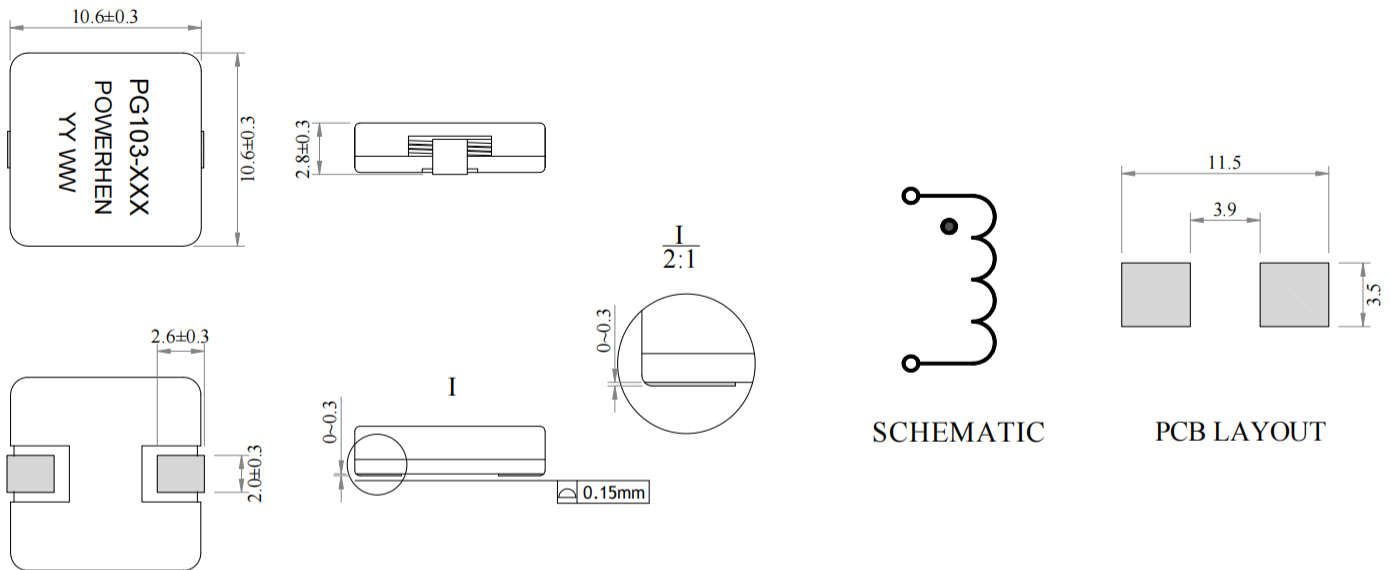
- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器；测试频率 100KHz
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器；环境温度 25°C
- ③ SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- ④ 直流电流在 25°C，加载导致指定电感从没有电流的值下降。
- ⑤ 导致指定温度从 25°C 环境温度上升的电流。此信息仅供参考，不代表绝对最大额定值。
- ⑥ 25°C 时的电气规格

Shenzhen Powerhen Electronic Co., Ltd

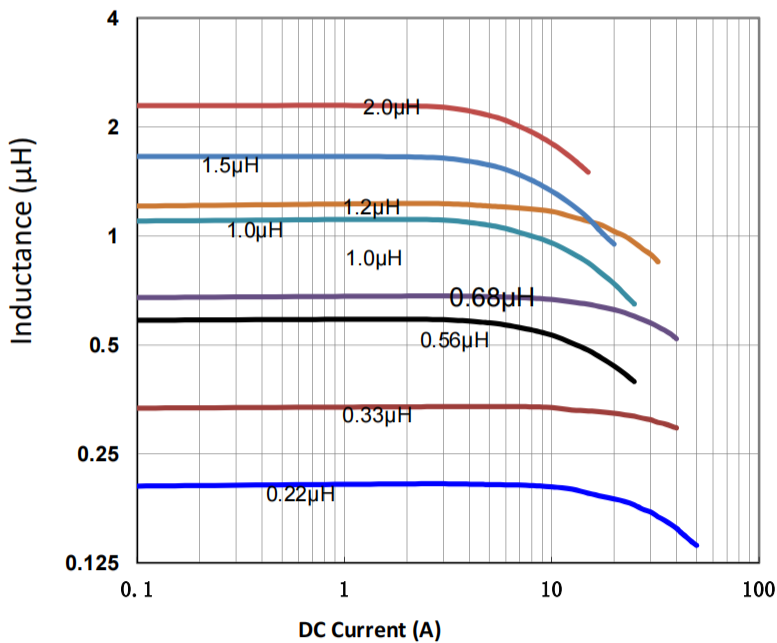
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Dimensions 结构尺寸

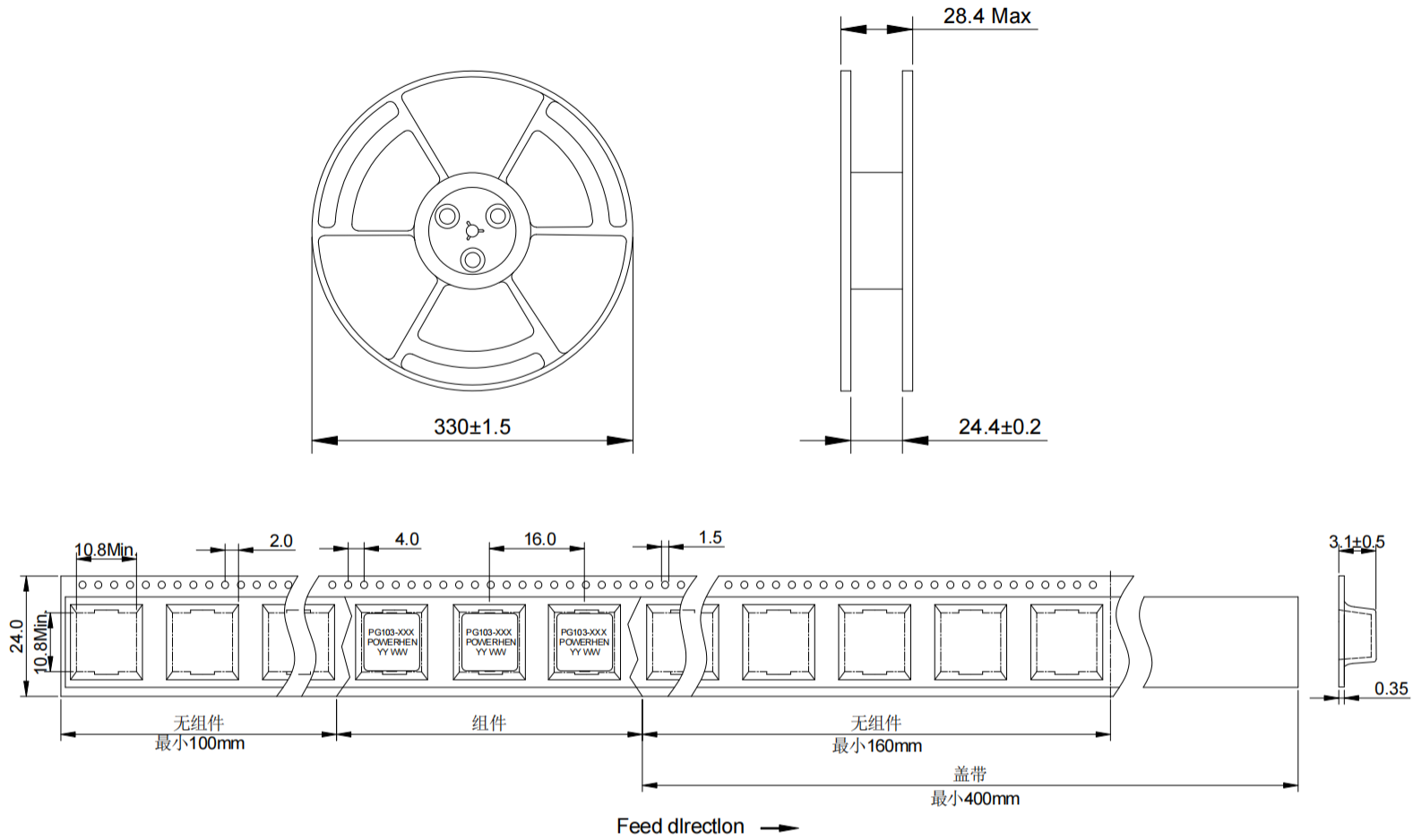


Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]



Weight 重量: 1.52~1.625g/PCS

Packaging 包装数量: 800 PCS/Reel