

■PG189A 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 (在车间 <30°C / 85% 相对湿度时的无限制)



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 电气特性

Part number	①Inductance $\mu H \pm 20\%$	②DC resistance $m\Omega$ typ max.		③SRF typical MHz		④Isat A typical			⑤Irms A typical	
						10% drop	20% drop	30% drop	20°C rise	40°C rise
PG189A-562ML	5.6	2.82	3.1	26		4.5	7.1	28.5	16.9	27.1
PG189A-762ML	7.6	3.75	4.13	20		5	8.5	22.8	14.2	12.8
PG189A-103ML	10	6.9	7.6	16		6	13	19.2	11.0	16.4
PG189A-153ML	15	9.0	9.9	14		5.1	14.6	15.4	9.2	14.1
PG189A-223ML	22	14.6	16.1	10.5		4.5	12.1	12.5	7.0	10.9
PG189A-333ML	33	21.7	23.87	9.5		6	9.1	9.5	5.2	8.7
PG189A-473ML	47	33.5	36.8	7.5		6.95	7.6	7.8	4.2	6.4

Remark

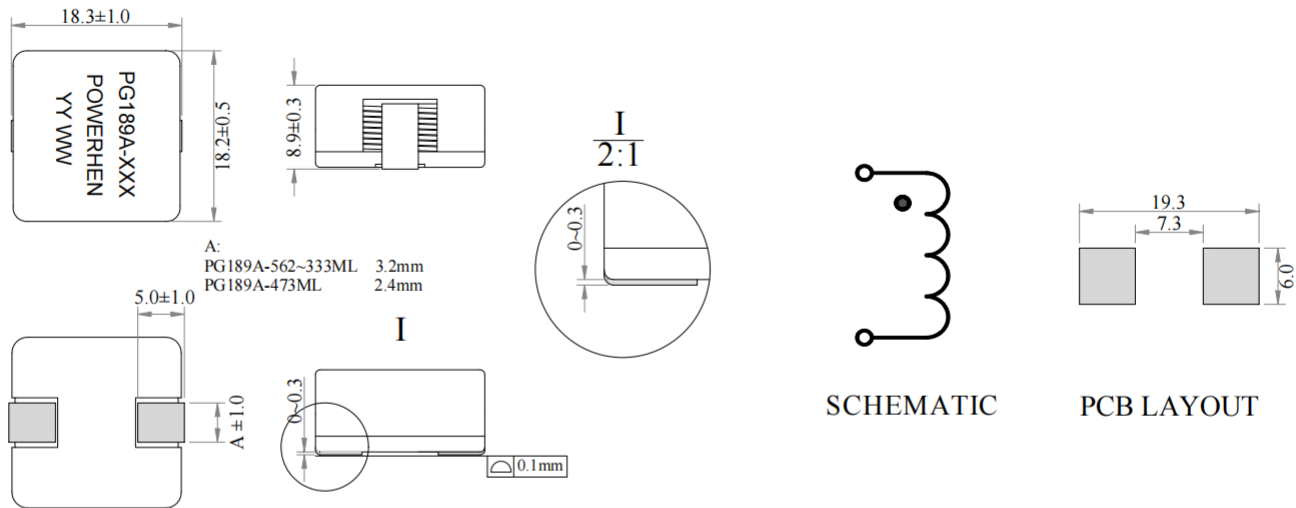
- ① Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz
- ② DC resistance is measured with Keithley 580 Milliohm Meter, or equivalent.
Reference ambient temperature 25°C
- ③ SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
- 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.

备注

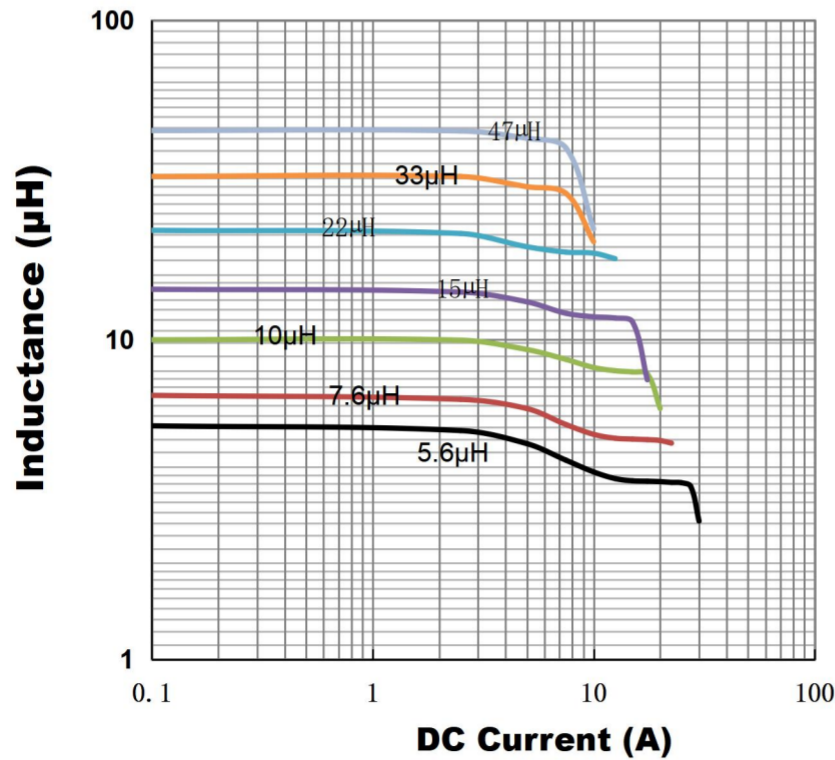
- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器；
测试频率 100kHz
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器；
环境温度 25°C
- ③ SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- ④ 直流电流在 25°C，加载导致指定电感从没有电流的值下降。
- ⑤ 导致指定温度从 25°C 环境温度上升的电流。此信息仅供参考，不代表绝对最大额定值。
- ⑥ 25°C 时的电气规格

⑥Electrical specifications at 25°C

■ Dimensions 结构尺寸

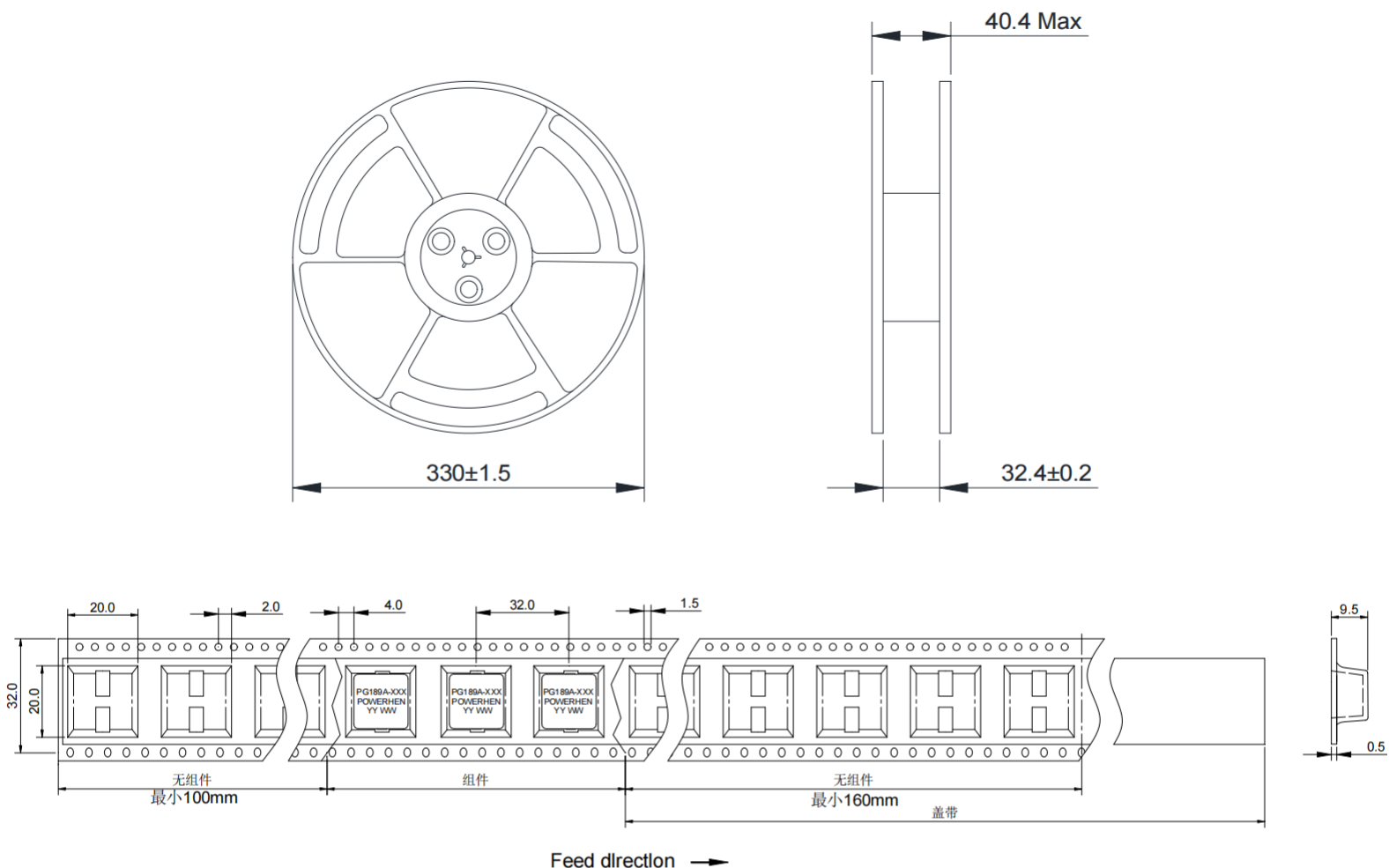


Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]



Weight 重量: 12.38~13.8g/PCS

Packaging 包装数量: 150 PCS/Reel