芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

PG75

贴片大电流功率电感

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样品申请 · 替代选型 · 批量报价，欢迎来函来电

SMD HIGH CURRENT POWER INDUCTOR　　贴片大电流功率电感

■PG75 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℃~+125℃. 工作温度：-40℃~+125℃
- 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% 相对湿度时的车间无限制）



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	① Inductance μH±20%	②DC resistance mΩ typ	②DC resistance mΩ max.	③SRF typical MHz	④Isat A typical 10% drop	④Isat A typical 20% drop	④Isat A typical 30% drop	⑤Irms A typical 20℃rise	⑤Irms A typical 40℃rise
PG75-241ML	0.24	1.0	1.1	320	20	26	34	25	33
PG75-471ML	0.47	1.35	1.48	235	11.2	18	24	23	28.8
PG75-761ML	0.76	2.25	4.07	200	9	13	17	14	19.2
PG75-112ML	1.1	3.15	3.46	135	8	11.8	15.4	11	14.4
PG75-152ML	1.5	4.3	4.7	110	6	8	11	8.5	11.8
PG75-202ML	2.0	5.85	11.6	68	4.8	7.2	9	7.5	9.6
PG75-332ML	3.3	9.0	9.9	68	4.1	6	8.2	6.5	8.7
PG75-492ML	4.9	14.5	16	56	3.2	4.9	6.5	5.2	6.9
PG75-652ML	6.5	21.5	23.6	50	3.1	4.7	6.2	4.2	5.9
PG75-762ML	7.6	28.2	31	48	2.7	4	5.4	2.7	3.8
PG75-852ML	8.5	30.5	33.5	44	2.5	3.85	5	2.5	3.6
PG75-103ML	10	33	36	40	2.4	3.8	4.5	2.2	3.3

Remark

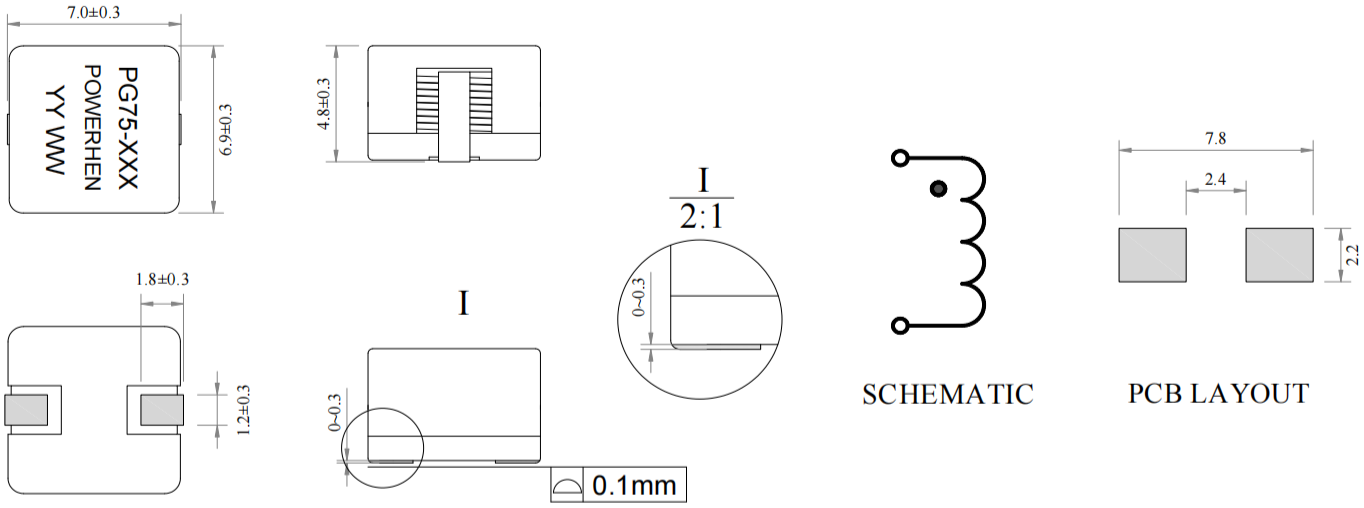
①Inductance is measured with a LCR meter Agilent 4284A or equivalent.
Test frequency at 100kHz 1V
②DC resistance is measured with keithley 580 Milliohm Meter , or equivalent.
Reference ambient temperature 25°C
③SRF measured using an Agilent 4395A network analyzer and an Agilent 16193A test fixture.
④DC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

备注

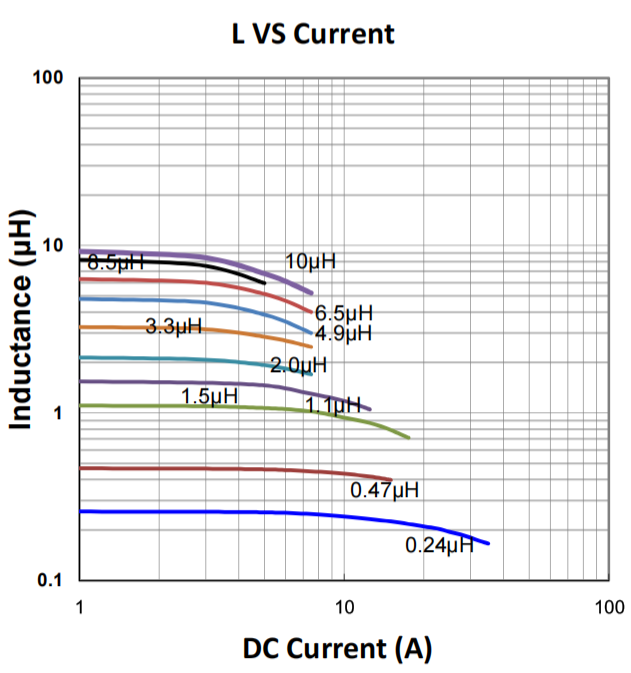
①电感量测试采用 Agilent 4284A 数字电桥或同等仪器；
测试频率 100KHz 1V
②直流电阻测试采用 keithley 580 毫欧表或同等仪器；
环境温度 25° C
③SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。
⑤导致指定温度从 25° C 环境温度上升的电流。 此信息仅供参考，不代表绝对最大额定值。
⑥25° C 时的电气规格

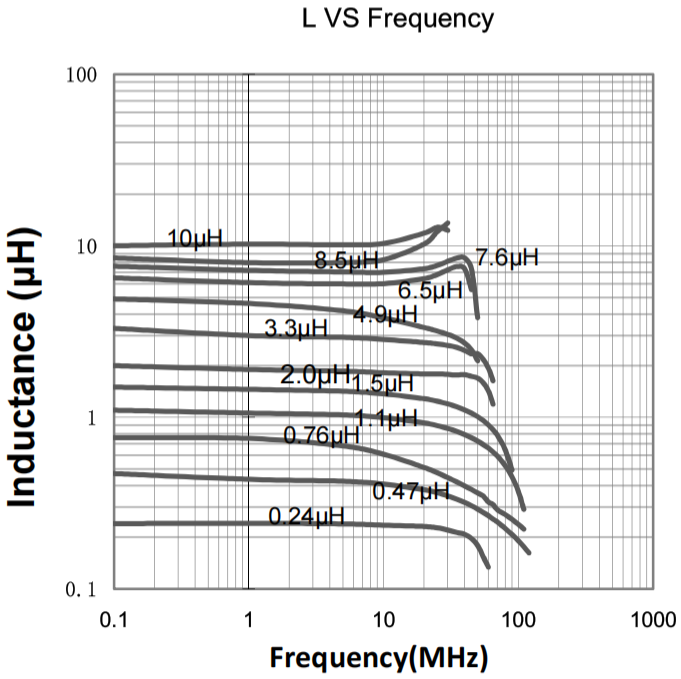
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■ Dimensions 结构尺寸



■ Electrical Characteristic Curve 电气特性曲线

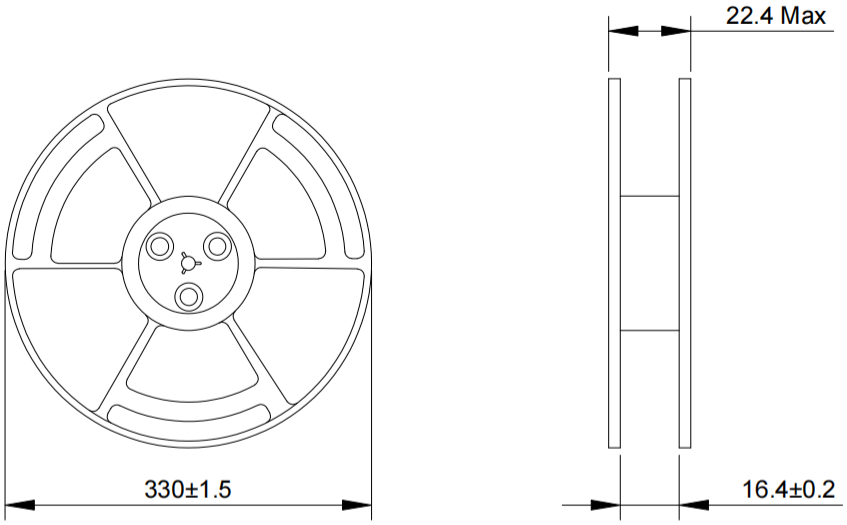


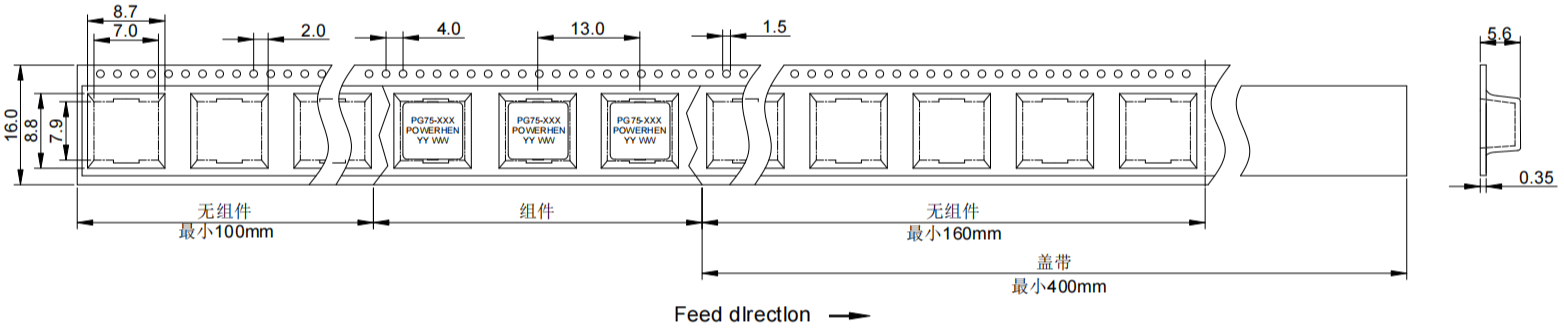


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■Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装：[mm]





Weight 重量: 0.98~1.12g/PCS

Packaging 包装数量: 1000 PCS/Reel