

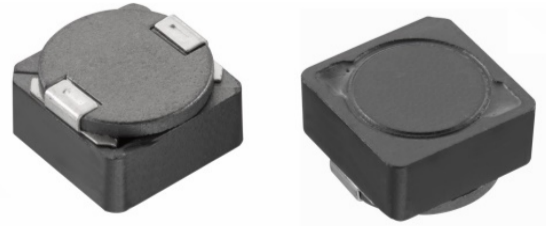
PF1045

SMD Flat WIRE POWER INDUCTOR

贴片扁平线功率电感

Features

- Core material: NiZn.
芯材: 镍锌
- Flat wire power inductor
扁平线功率电感器
- High Self Resonance Frequency
高自谐频率
- Operating temperature : $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$.
工作温度: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$
- 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

- Suitable for high frequency switching regulators.
适用于高频开关稳压器。

Electrical characteristics 电气特性

Part number 料号	Inductance 电感量 μH	DCR① 直流电阻 $\text{m}\Omega$ max. (typ.)		SRF② 自谐频率 MHz	Isat 直流饱和电流 A (typ.) 10% drop	Irms④ 温升电流 A typ. 20°C rise
PF1045-221NL	$0.22 \pm 30\%$	3.5	2.9	328	32	16
PF1045-501NL	$0.5 \pm 30\%$	5.0	4.3	182	23	13.2
PF1045-112NL	$1.1 \pm 30\%$	6.7	5.9	116	16	11.2
PF1045-182ML	$1.8 \pm 20\%$	8.4	7.4	86	13	9.4
PF1045-252ML	$2.5 \pm 20\%$	10.2	9.0	61	10.5	8.4
PF1045-362ML	$3.6 \pm 20\%$	12.2	10.8	55	8.5	8.2
PF1045-472ML	$4.7 \pm 20\%$	19.5	17.3	45	8	6.2
PF1045-622ML	$6.2 \pm 20\%$	22.4	19.8	36	7.4	5.7
PF1045-822ML	$8.2 \pm 20\%$	28.6	25.3	28	5.8	5.05

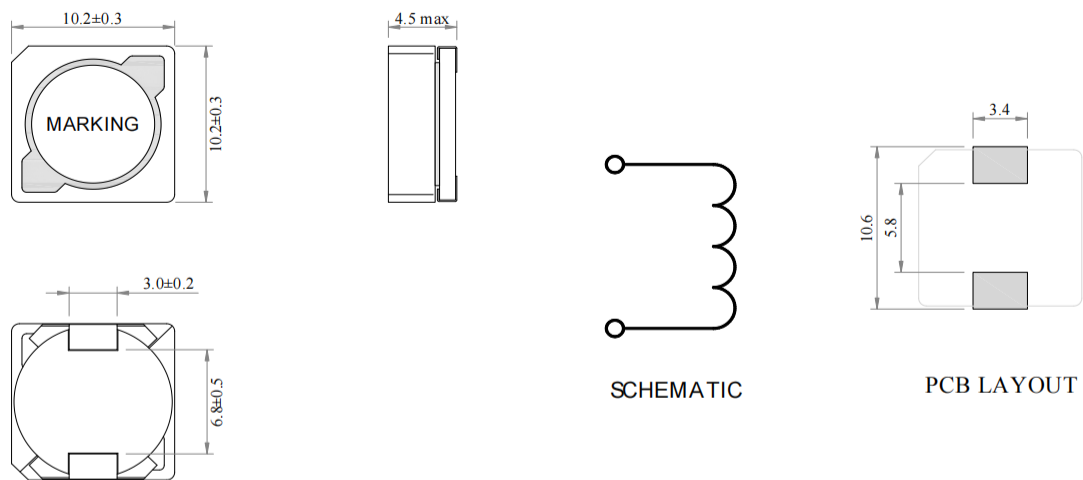
Remark

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

备注

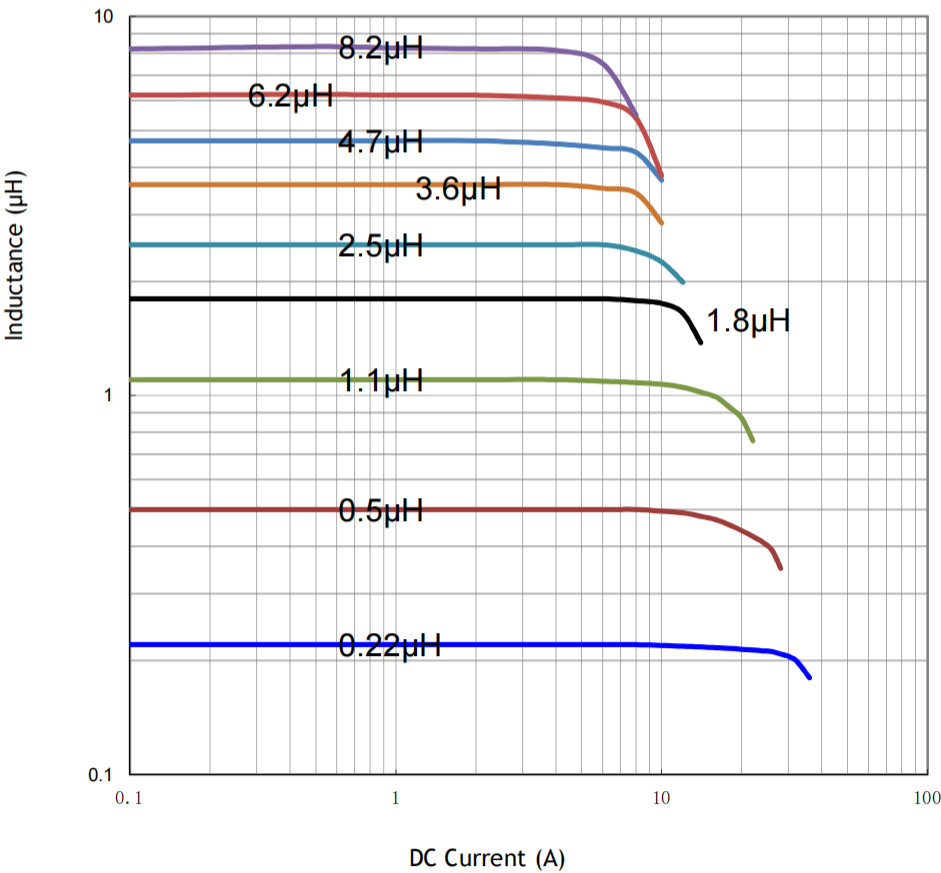
- 电感量测试采用 Agilent 4284A 数字电桥或同等仪器;
测试频率 100KHz
- 直流电阻测试采用 Keithley 580 毫欧表或同等仪器;
环境温度 25°C
- SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。
- 直流电流在 25°C , 加载导致指定电感从没有电流的值下降。
- 导致指定温度从 25°C 环境温度上升的电流。此信息仅供参考, 不代表绝对最大额定值。
- 25°C 时的电气规格

Dimensions 结构尺寸



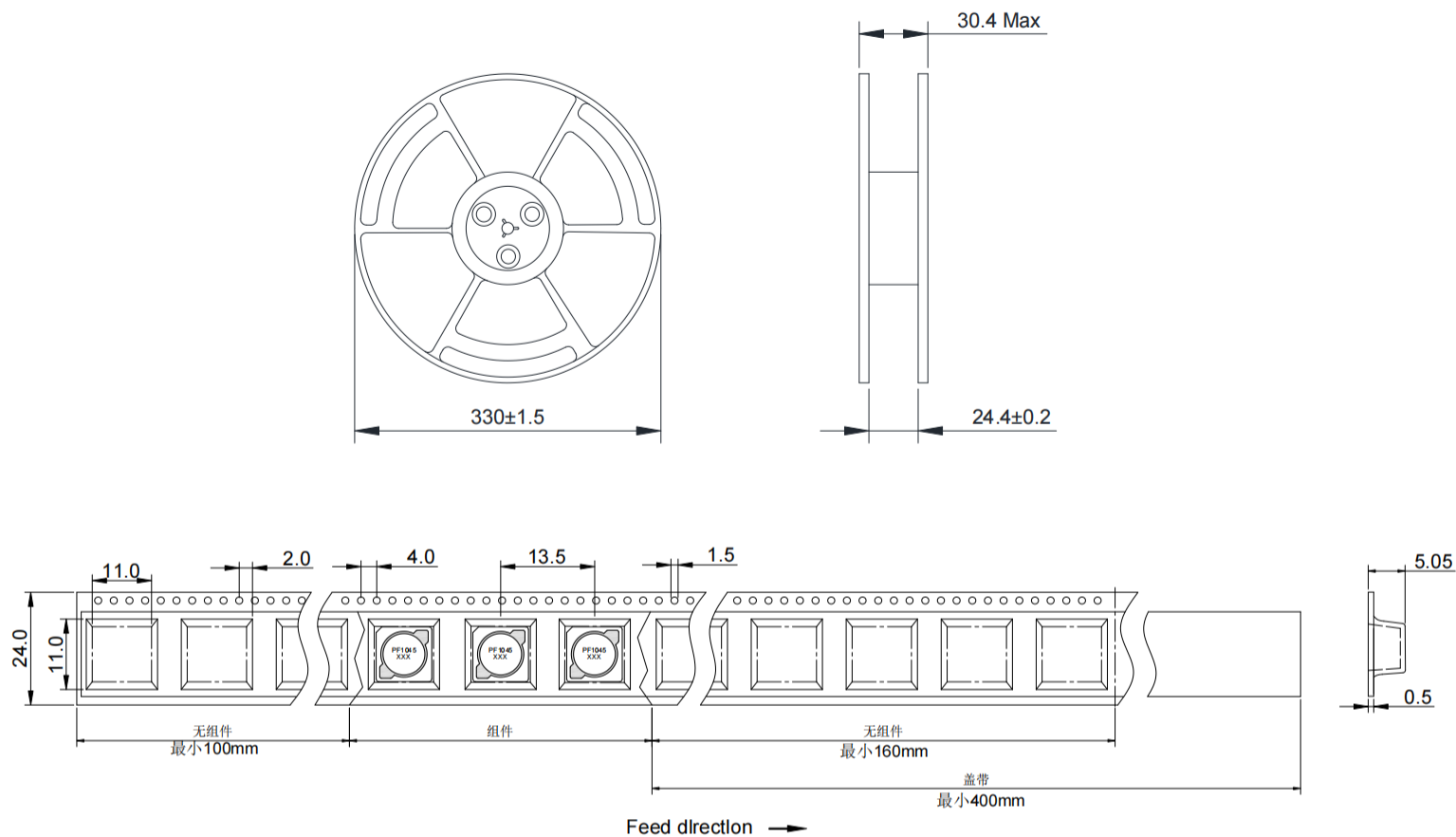
Electrical Characteristic Curve 电气特性曲线

PF1045 Series



■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]



Weight 重量: 1.78g/PCS

Packaging 包装数量: 500PCS/Reel