

MSD1008

SMD Coupled Molded Inductor

贴片耦合模压电感

Features 特点

- Core material: Powdered iron.
芯材: 铁粉
- Molded Coupled inductor
模压耦合电感器
- Low inductance drift over temperature
电感随温度变化的低波动
- Coupled inductor with two identical windings More variants due to parallel and series connection possible
两个相同绕组的耦合电感器通过并联和串联连接, 可提供更多变体
- Operating temperature : $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$.
工作温度: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$



Applications 应用

- High power switching regulators 大功率开关稳压器
- 1:1 flyback converter 1: 1 反激式转换器
- Buck, Boost, Sepic and Cuk Converter Buck, Boost, Sepic 和 Cuk 转换器
- Switching regulators with second unregulated output voltage 具有第二个非稳压输出电压的开关稳压器
- Battery Cell Charging Balancer 电池充电平衡器

Electrical characteristics 电气特性

Part number 料号	Inductance ^① 电感量 μH	DCR ^② (1-3) (2-4) 直流电阻 $\text{m}\Omega$		SRF ^③ 自谐频率 MHz	Isat (A) ^④ 饱和电流		Irms(A) ^⑤ 温升电流		Rated Voltage 额定电压 (V) Max	K 耦合系数
		max.	typ.		typ.	max.	typ.	max.		
MSD1008-103ML	10	37.2	31.0	11	10.6	12.4	4.8	5.3	75	> 0.95
MSD1008-153ML	15	46.8	39.0	8	9.1	10.6	4.6	5.0	75	> 0.95
MSD1008-223ML	22	99.0	83.0	7	7.1	8.3	3.1	3.4	75	> 0.95
MSD1008-333ML	33	114.0	99.5	6	6.5	6.9	2.9	3.2	55	> 0.95
MSD1008-473ML	47	129.6	108.0	5	5.2	6.1	2.6	2.9	55	> 0.95

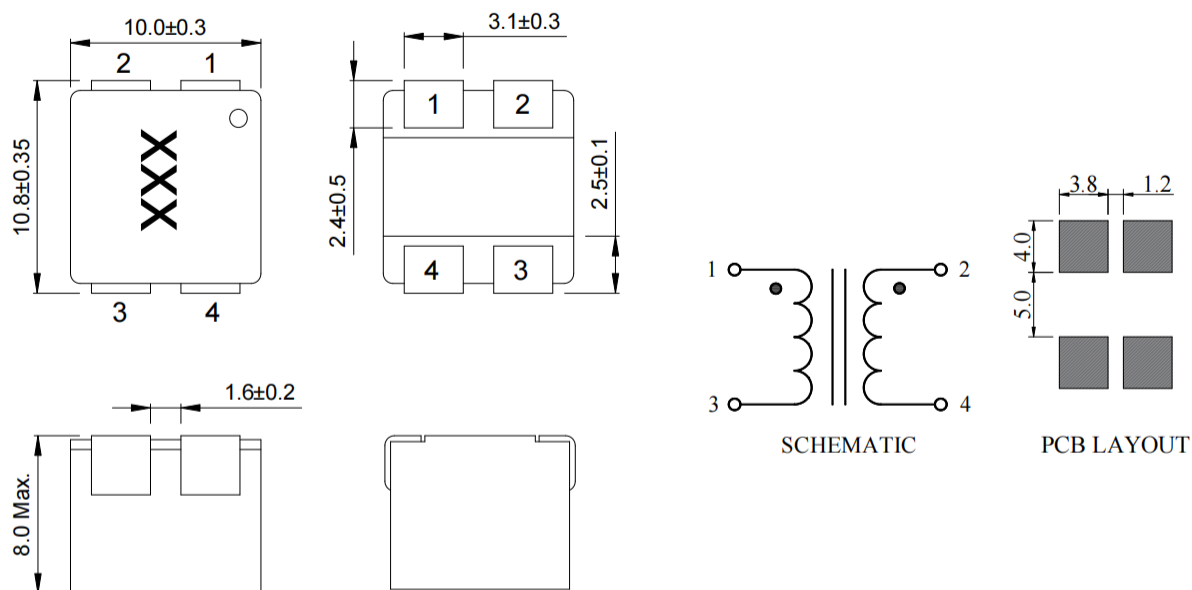
Remark

- 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 (A) that will cause LQ to drop approximately 30%
- DC current (A) that will cause an approximate ΔT of 40°C . This information is for reference only and does not represent absolute maximum ratings.
- Electrical specifications at 25°C

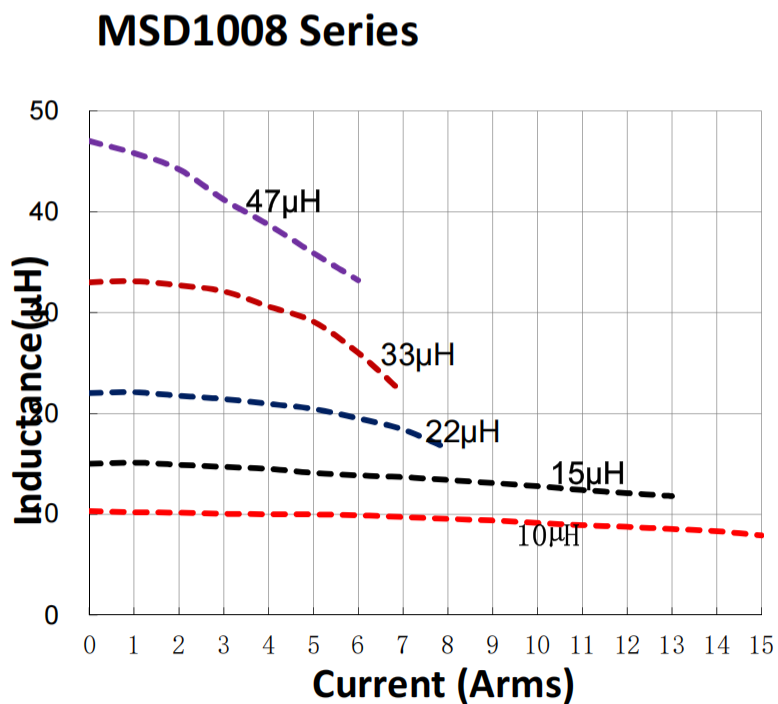
备注

- 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 30%。
- 导致指定温度从 25°C 环境温度上升 40°C 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

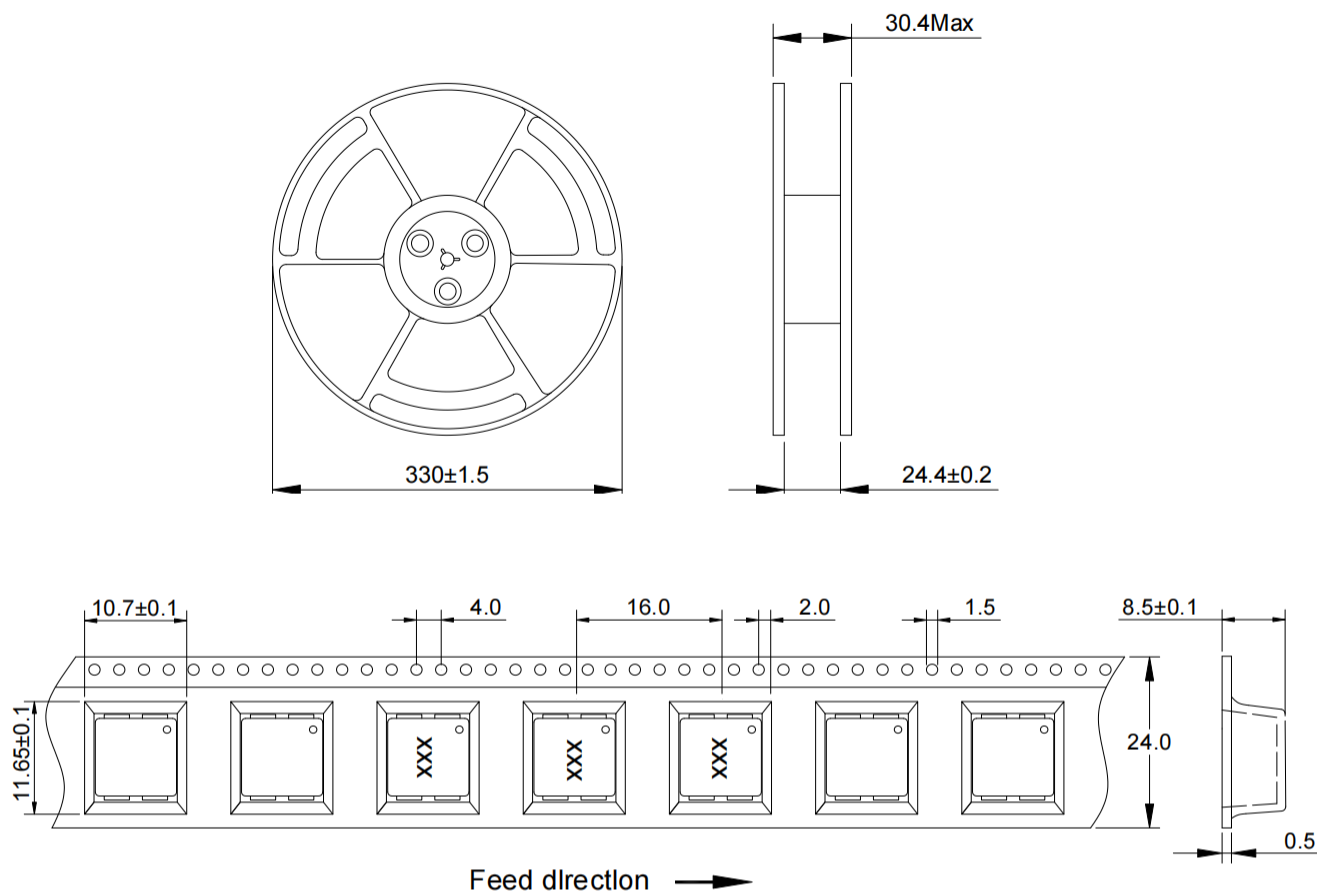


Electrical Characteristic Curve 电气特性曲线



■ Packaging Specification - Tape and Reel: [mm]

包装规格 - 卷带包装: [mm]



Weight 重量: 4.7 g/PCS

Packaging 包装数量: 300 PCS/Reel