

SMD POWER INDUCTORS FOR DIGITAL AMPLIFIER 贴片数字功放电感

■ PD09 Series

Features 特点

- Space reduction is realized by 2 in 1 construction.
二合一结构缩小空间
- The optimal design realizes high quality sound and low distortion.
高音质、低失真最佳设计
- Compact size using flat wire, and SMD type.
扁平线小尺寸封装, 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



Applications 应用

- Suitable as choke for digital amp. Car audio, LCD and PDP TV, 5.1ch Home theater, etc.
适用于数字功放扼流。如汽车音响, LCD 电视和 PDP 电视, 5.1 声道家庭影院等

Electrical characteristics 电气特性

Part number 料号	Inductance ① 电感量 $\mu\text{H} \pm 10\%$	DCR ② 直流电阻 $\text{m}\Omega$		SRF③ 自谐频率 MHz	Isat ④ 饱和电流 A typical			I _{rms} ⑤ 温升电流 A max	
		typ	max.		reference	10% drop	20% drop	30% drop	20°C rise 40°C rise
PD09-332KL	3.3	9.6	11	45		11.8	12.8	13.2	5.1 8.5
PD09-472KL	4.7	11.2	15	40		8.2	8.8	9.1	4.4 6.2
PD09-822KL	8.2	13.5	20	31		6.2	6.8	7.1	4 5.6
PD09-103KL	10	15.1	22	25		5.9	6.4	6.6	3.9 5.2
PD09-123KL	12	16	25	26		5.5	5.8	6.1	3.4 4.9
PD09-153KL	15	34.6	44	22.5		5.4	5.6	5.7	2.8 3.8
PD09-223KL	22	45.8	52	18		3.8	4	4.1	2.5 3.6

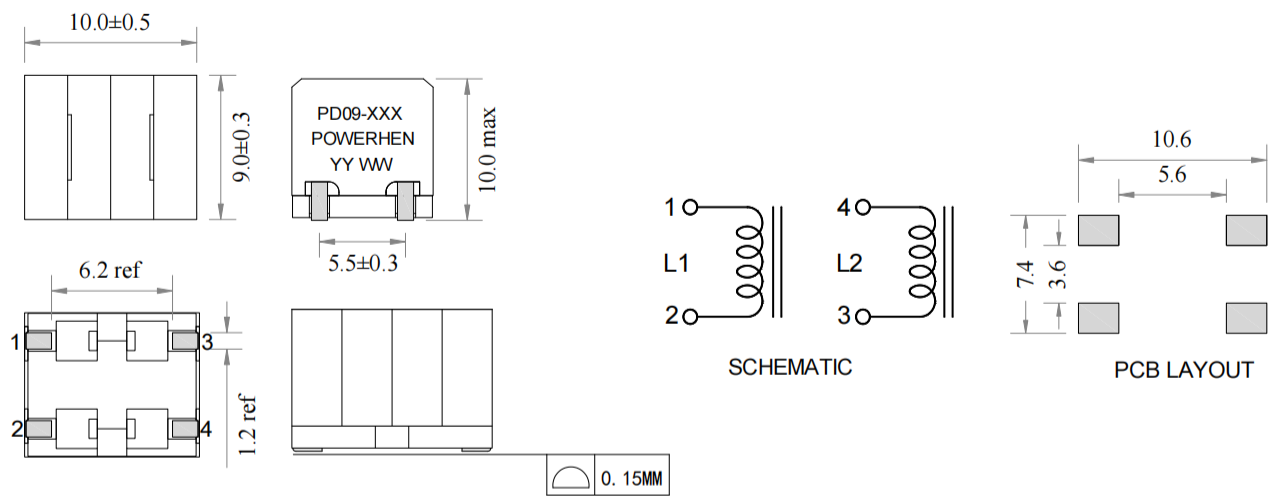
Remark

- 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 16093A 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

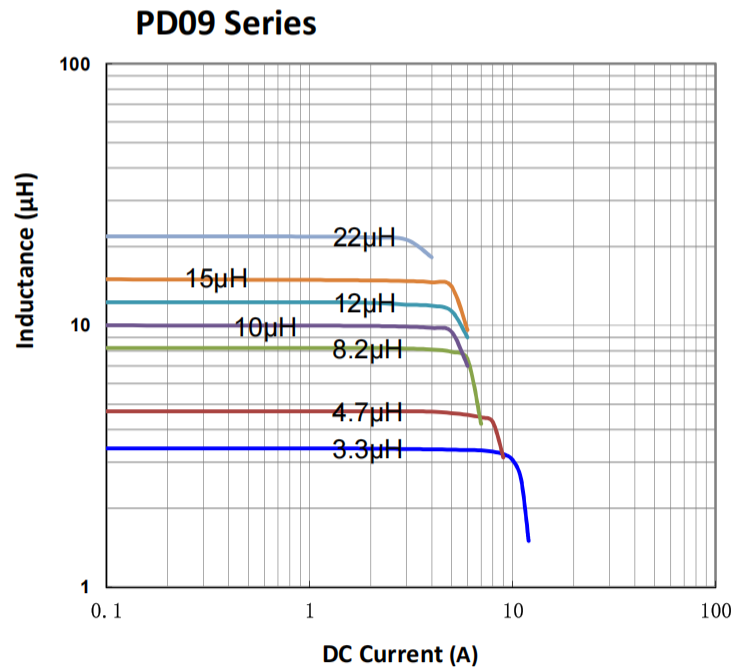
- ① 电感量测试采用 Agilent 4284A 数字电桥或同等仪器;
测试频率 100KHz
- ② 直流电阻测试采用 Keithley 580 毫欧表或同等仪器;
环境温度 25° C
- ③ SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16093A 测试夹具测量
- ④ 直流电流在 25° C, 加载导致指定电感从没有电流的值下降。
- ⑤ 导致指定温度从 25° C 环境温度上升的电流。此信息仅供参考, 不代表绝对最大额定值。
- ⑥ 25° C 时的电气规格

Dimensions 结构尺寸



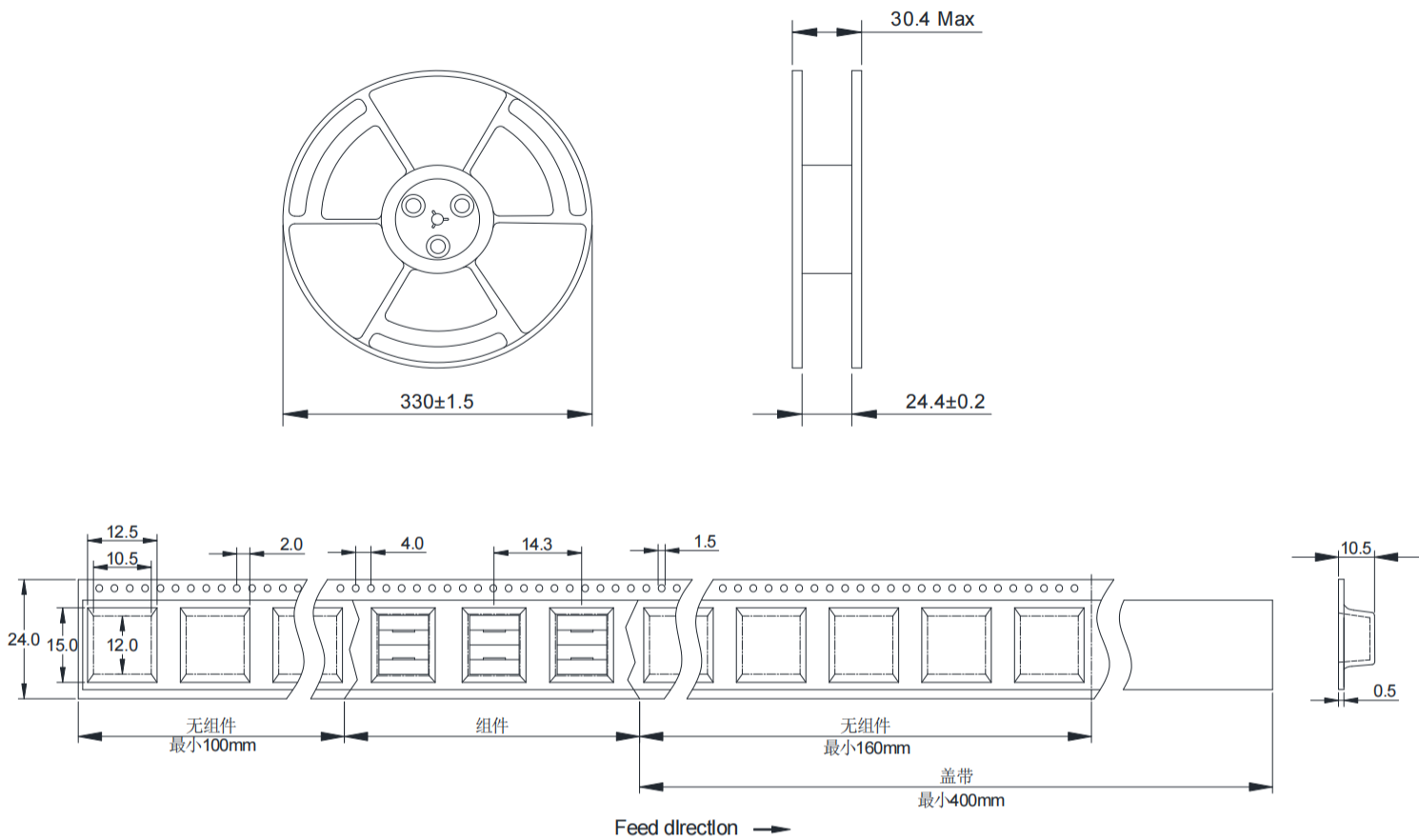
■ PD09

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: 3.11~3.24g/PCS

Packaging 包装数量: 300 PCS/Reel