

PER2200 Planar High Current Power Inductor

平面大电流功率电感

Features 特点

- Flat wire windings provide extremely low DC and AC resistance.
扁平绕组提供极低的直流和交流电阻
- Low radiation noise by magnetically shielded construction
闭合磁路封装，低辐射
- High temperature ferrite core
高温铁氧体磁芯
- Operating temperature : -40°C~+125°C.
工作温度: -40°C~+125°C
- 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 时的无限车间寿命/ 85% 相对湿度)



Applications 应用

- Energy storage chokes for 储能扼流圈
- Buck/boost choke for 48 V boardnet converter. 用于 48V 转换降压/升压扼流圈
- Filter for audio applications. 音频滤波应用
- DC-DC converters. 直流/直流转换器

Electrical characteristics 电气特性

Part number 料号	Inductance① 电感量 $\mu\text{H} \pm 10\%$	DCR ② 直流电阻 $\text{m}\Omega$		SRF③ 自谐振频率 MHz	Isat④ 饱和电流 A typ				Irms⑤ 温升电流 A max.	
		Typ	Max.		typical	10% drop	20% drop	30% drop	20°C rise	40°C rise
PER2210-102KL	1.0	0.55	0.65	45		51	52.4	53.1	24.2	35.1
PER2211-152KL	1.5	0.8	0.9	39		50	51.6	52.2	23.4	32.9
PER2212-222KL	2.2	1.0	1.2	32		43	45.4	46.3	22.8	30.4
PER2214-332KL	3.3	1.3	1.5	29		34	36.8	37.6	22.2	28.8
PER2210-472KL	4.7	2.15	2.4	23		22	24.2	25.1	17.9	25.2
PER2210-682KL	6.8	2.7	2.9	19		19.1	22.5	23.9	16.1	24.1
PER2211-103KL	10	3.7	4.0	16		18.3	20.5	21.7	13.3	22.2
PER2212-153KL	15	4.65	5.05	14		15.3	17.7	18.6	11.2	20.5
PER2214-203KL	20	5.7	6.4	12		14.3	16.2	16.8	10.5	19.2
PER2214-293KL	29	6.65	7.2	11		11.0	13.2	13.7	9.8	15.1
PER2214-353KL	35	6.65	7.2	10		9.3	10.8	11.3	9.8	15.1

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

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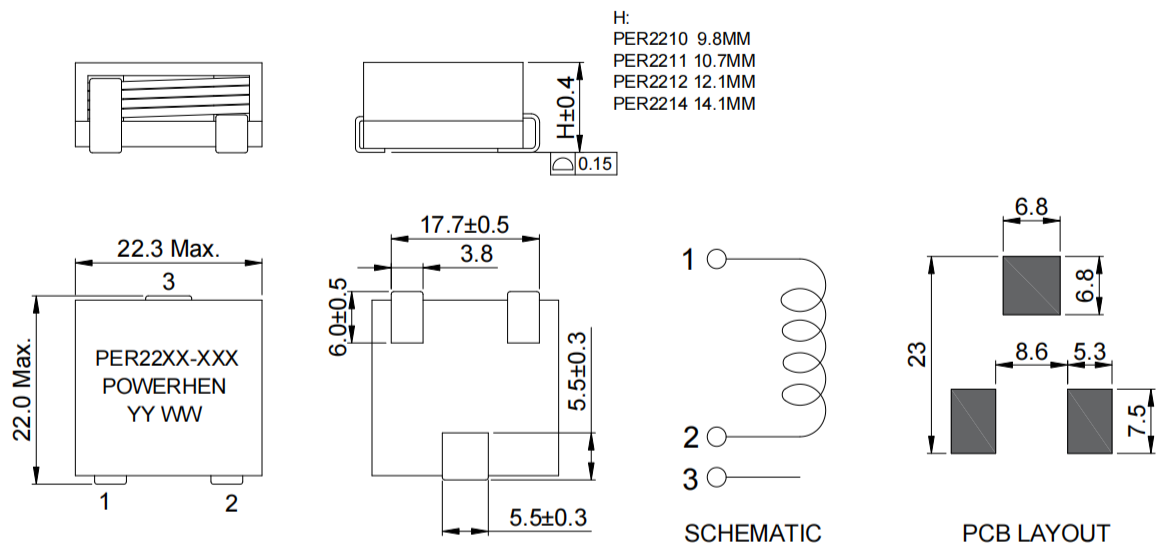
E-Mail: sales@powerhen.com

*The specifications of the data measured in the laboratory, different conditions of use, please refer to the actual.

The specifications are subject to change, without prior notice.

*Without approval, this product can not be used for medical military or other high-risk areas

Dimensions 结构尺寸



Electrical Characteristic Curve 电气特性曲线

