芯芒微电子

XINMANG MICROELECTRONICS

POWERHEN

Electronics

产品规格书

HCD2920

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

■HCD2920 Series

Features



- Suing round wire, and SMD type. 采用圆线，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 时的无限车间寿命/ 85% 相对湿度）

Applications

- 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

Part number	① Inductance μH ±20%	②DCR mΩ typ	②DCR 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
HCD2920-223ML	22	4.97	5.4	9	7.5	20	21.7	16	24
HCD2920-333ML	33	6.9	7.6	7.1	6	14.8	15.4	14	20
HCD2920-473ML	47	8.8	9.68	6.7	6.5	12.7	13	12.2	17.5
HCD2920-683ML	68	10.3	11.33	5.7	7.2	10.2	10.6	11.1	16
HCD2920-104ML	100	22.9	25.2	4.3	7	9	9.4	7.2	10.5
HCD2920-154ML	150	30.6	33.65	3.2	5.8	6.9	7.2	6.2	9
HCD2920-224ML	220	36.9	40.1	2.8	4.1	4.95	5.3	5.7	8.15
HCD2920-334ML	330	71.3	77.5	2.4	4	4.2	4.3	4	5.75
HCD2920-474ML	470	84.6	92	1.7	3.2	3.5	3.7	3.7	5.2
HCD2920-684ML	680	119.7	130.15	1.1	2.6	2.85	3	3.4	4.3

Remark

① Inductance is measured with a LCR meter Agilent 4284A or equivalent. Test frequency at 100kHz

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 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

③SRF 使用 Agilent 4395A 网络分析仪和 Agilent 16193A 测试夹具测量。

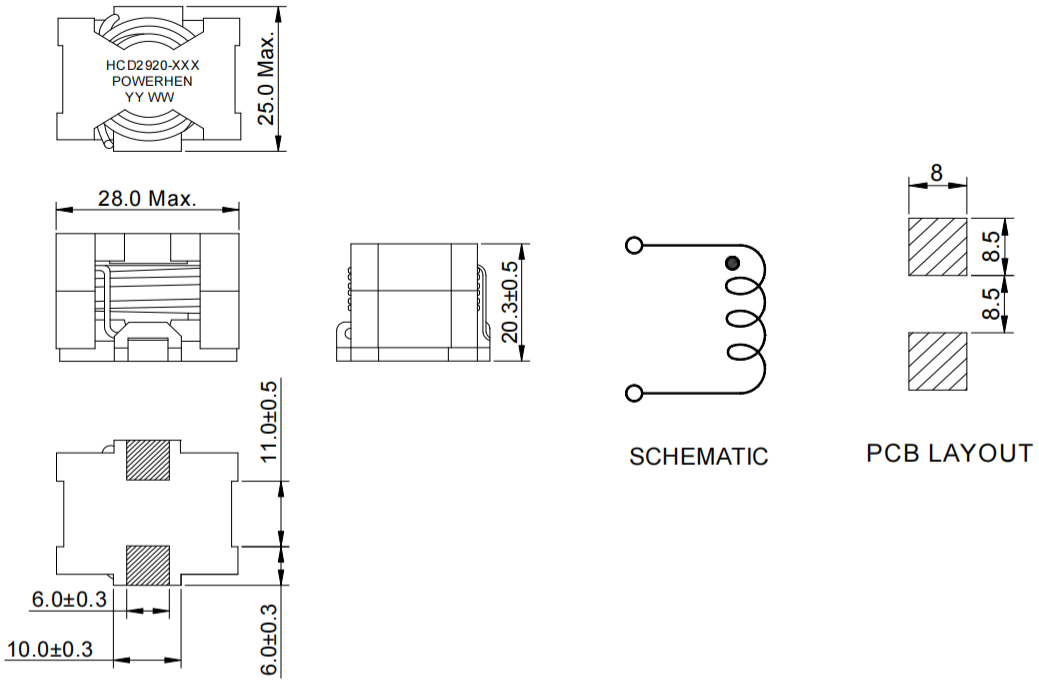
④直流电流在 25° C，加载导致指定电感从没有电流的值下降。

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。

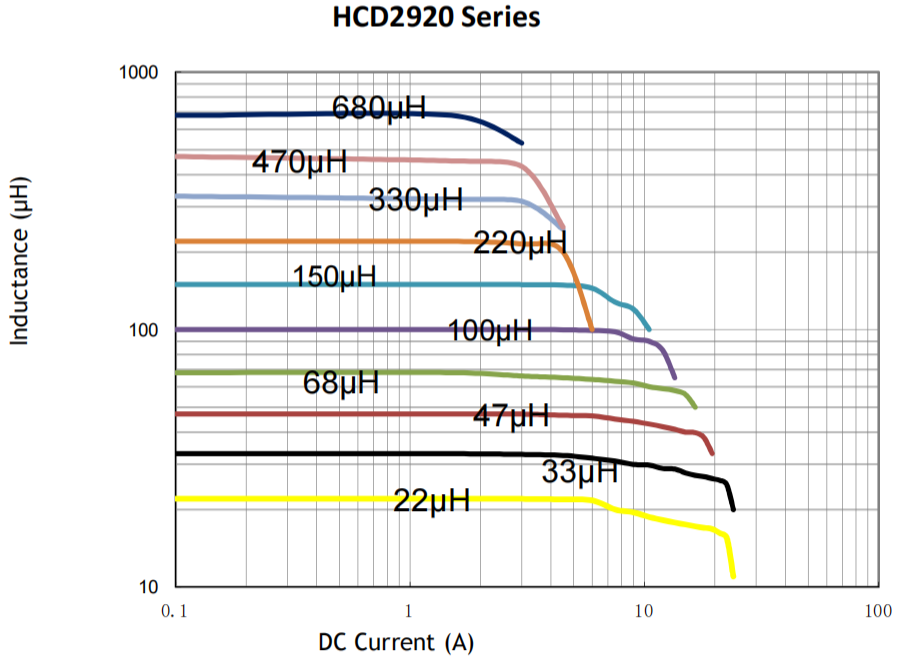
⑥25° C 时的电气规格

ShenZhen Powerhen Electronic Co.,Ltd
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■Dimensions



Electrical Characteristic Curve



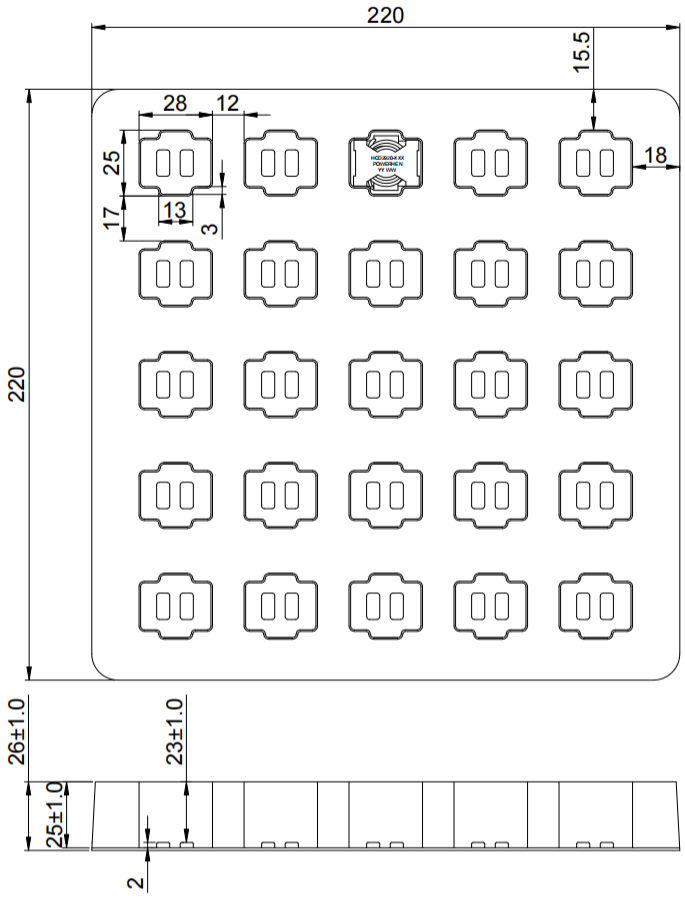
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■Packaging Specification - tray: [mm]

包装规格 – 托盘包装：[mm]



Weight 重量:38~39.2g/PCS

Packaging 包装数量: 25 PCS/盘