

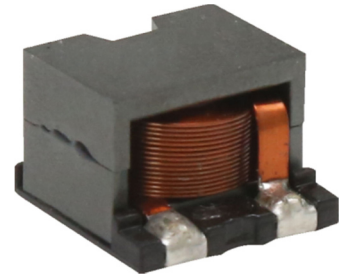
EEC139

HIGH CURRENT POWER INDUCTOR

大电流功率电感

Features

- 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

- 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 料号	Inductance 电感量 μH	DC resistance 直流电阻 mΩ max(typ.)	DC saturation current 直流饱和电流 A max.(typ.)			Temperature rise current 温升电流 A max.	
			ΔL ≦ 10%	ΔL ≦ 20%	ΔL ≦ 30%	ΔT ≦ 20°C	ΔT ≦ 40°C
EEC139-103	10 ± 10%	15(14.0)	11.4(12.6)	12.6(13.4)	13.2(14)	6.4	9.2
EEC139-153	15 ± 10%	15(14.0)	7.2(8)	8.1(9.2)	8.7(9.8)	6.4	9.2
EEC139-223	22 ± 10%	23(21.0)	6.1(7.2)	6.8(7.6)	7.4(8.1)	5.7	7.7
EEC139-333	33 ± 10%	23(21.0)	3.8(4.7)	4.4(5.2)	4.8(5.5)	5.7	7.7
EEC139-473	47 ± 10%	23(21.0)	2.6(3.2)	3(3.5)	3.2(3.7)	5.7	7.7

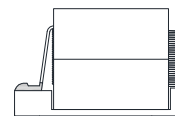
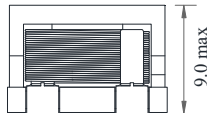
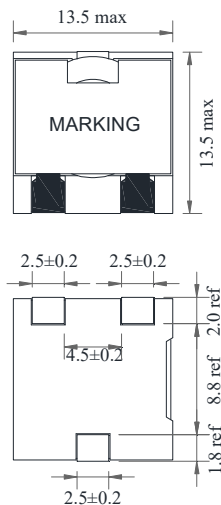
Remark

- Inductance is measured with a LCR meter 4284A or equivalent.
Test frequency at 100kHz
- DC resistance is measured with 16502 Milliohm Meter , or equivalent.
Reference ambient temperature 25°C

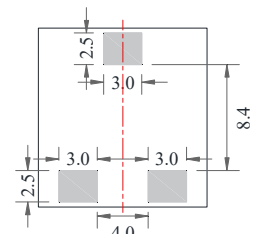
备注

- 电感量测试采用 4284A 数字电桥或同等仪器；
测试频率 100KHz
- 直流电阻测试采用 16502 毫欧表或同等仪器；
环境温度 25°C

Dimensions



SCHEMATIC



PCB LAYOUT

■ EEC139

Electrical Characteristic Curve

