

# EEC148

# 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
EEC148-501	0.5 ± 20%	1.2(1.0)	39(41.7)	42(43.5)	43(44.2)	18	23
EEC148-102	1.0 ± 20%	1.2(1.0)	25.4(28)	28(29.3)	29.2(30)	18	23
EEC148-222	2.2 ± 20%	2.0(1.8)	19(21.2)	21(22)	21.8(22.7)	15	20
EEC148-332	3.3 ± 20%	3.3(3.0)	15(16.8)	17(18.2)	18(18.9)	12.5	17.5
EEC148-472	4.7 ± 10%	5.0(4.0)	12(13.8)	14(15)	15(15.8)	11.5	16
EEC148-682	6.8 ± 10%	6.5(5.4)	10.2(12)	12(13)	12.8(13.6)	8.1	12.5
EEC148-822	8.2 ± 10%	7.8(6.4)	9.0(10.5)	10(11)	10.7(11.6)	7	11
EEC148-103	10 ± 10%	9.8(8.4)	8.5(9.7)	9.5(10.3)	10.2(10.7)	6.5	10
EEC148-123	12 ± 10%	13.0(10.6)	7.5(8.5)	8.5(9.3)	9.2(9.8)	4.7	8.5

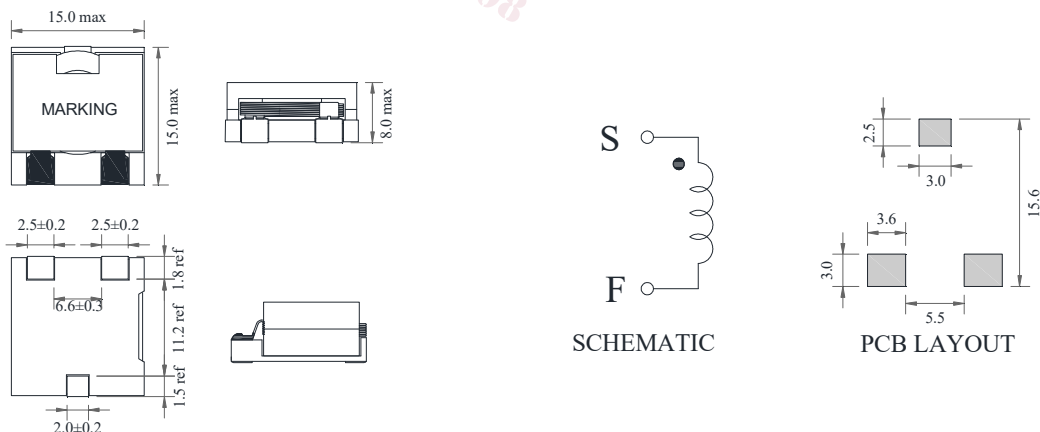
### Remark

- 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



**Electrical Characteristic Curve**

