

# HIGH CURRENT POWER INDUCTOR

## 大电流功率电感 EEA1085



### 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~+150°C.  
工作温度：-40°C~+150°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
- Laptops, Graphic cards, Motherboards. 笔记本、显卡、主板等

### 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
EEA1085-681	0.68 ± 20%	1.46(1.22)	56(62)	77(86)	>100	19.5	28
EEA1085-102	1.0 ± 20%	1.75(1.46)	35(38)	49(52.5)	60(64)	19	27.5
EEA1085-152	1.5 ± 20%	2.5(2.09)	21.6(24)	33.3(37)	43.2(48)	15.5	21
EEA1085-222	2.2 ± 20%	3.37(2.81)	17.2(19)	26.3(29)	35(39)	14	18
EEA1085-332	3.3 ± 20%	4.1(3.42)	9(10)	14.5(16)	18.5(20.5)	13	17
EEA1085-472	4.7 ± 20%	5.05(4.21)	5.8(6.5)	9.4(10.5)	13(14.5)	11	15
EEA1085-862	8.6 ± 20%	9.9(8.25)	5.1(6)	8(9.5)	11(13)	8	11.8
EEA1085-103	10.0 ± 10%	11.3(9.42)	4.8(5.6)	7.6(9)	10.2(12)	7.3	10.2
EEA1085-153	15.0 ± 10%	15.5(14.1)	3.8(4.5)	6.4(7.5)	8.5(10)	5.8	7.8
EEA1085-223	22.0 ± 10%	25.2(22.9)	3(3.6)	5(6)	6.8(8)	4.4	5.8
EEA1085-333	33.0 ± 10%	37.0(33.7)	2.8(3.1)	4.6(5.0)	6.4(6.9)	3.6	4.8
EEA1085-473	47.0 ± 10%	55.0(50.0)	2.4(2.8)	3.9(4.4)	5.4(5.9)	2.6	3.7

### 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

