

# EEA54

# 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~+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.			Temperature rise current 温升电流 A max.	
			ΔL ≤ 10%	ΔL ≤ 20%	ΔL ≤ 30%	ΔT ≤ 20°C	ΔT ≤ 40°C
EEA54-331	0.33 ± 20%	2.0(1.7)	9.0	14.8	20.0	12.1	16.4
EEA54-471	0.47 ± 20%	3.1(2.7)	9.6	13.6	16.0	9.9	13.8
EEA54-681	0.68 ± 20%	4.6(3.9)	6.6	10.3	13.5	8.0	11.3
EEA54-102	1.0 ± 20%	6.0(5.0)	6.0	8.2	11.5	7.3	10.2
EEA54-152	1.5 ± 20%	9.4(7.2)	5.0	7.5	9.0	5.9	8.2
EEA54-222	2.2 ± 20%	13.0(12.2)	3.2	5.0	7.5	5.0	6.8
EEA54-332	3.3 ± 20%	21.3(18.3)	2.6	4.0	5.8	3.8	5.2
EEA54-472	4.7 ± 20%	27.0(25.8)	2.5	3.7	4.7	3.2	4.3
EEA54-562	5.6 ± 20%	39.8(36.9)	2.5	3.5	4.6	3.0	4.1

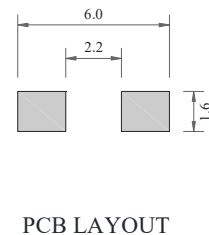
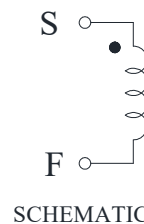
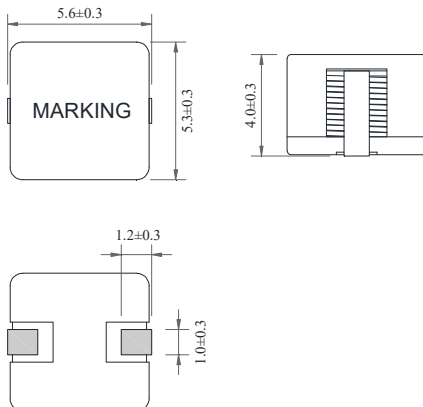
### Remark

- 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

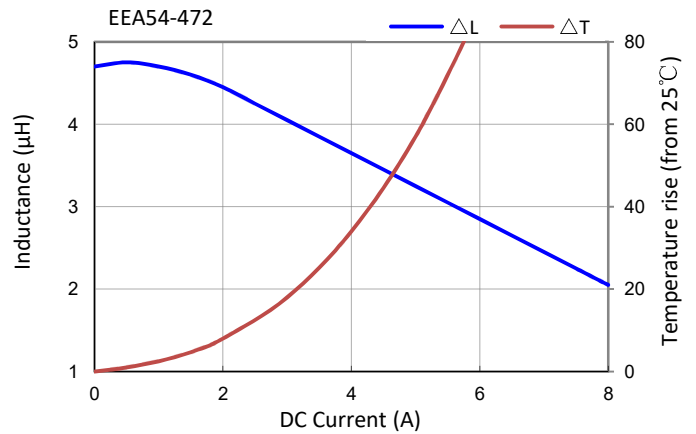
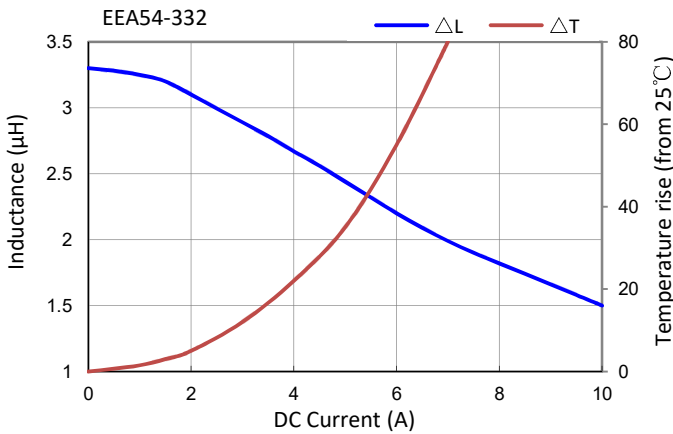
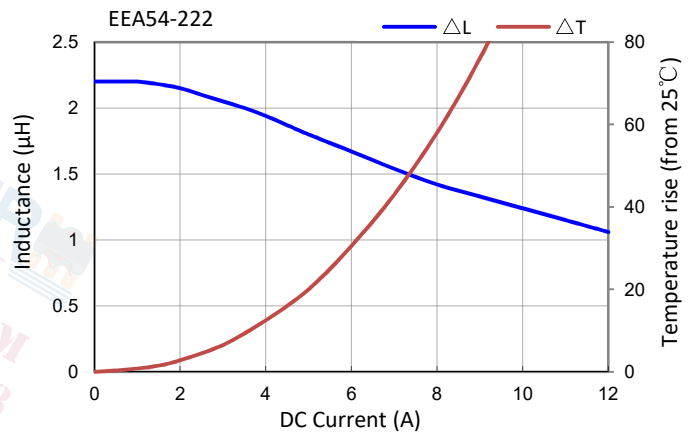
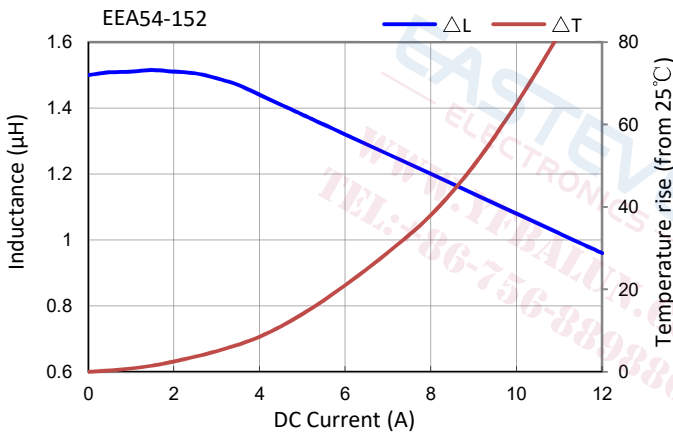
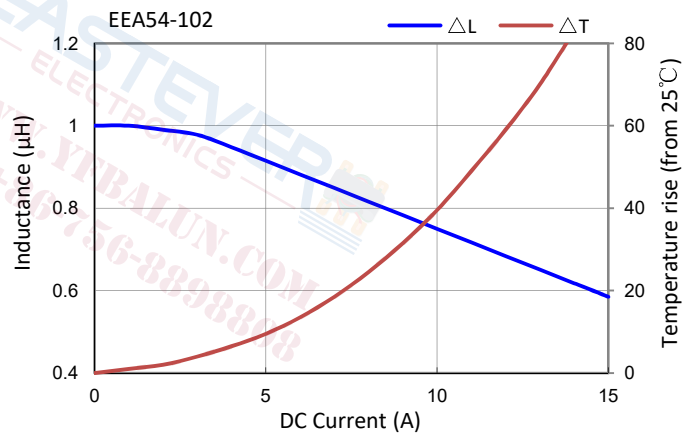
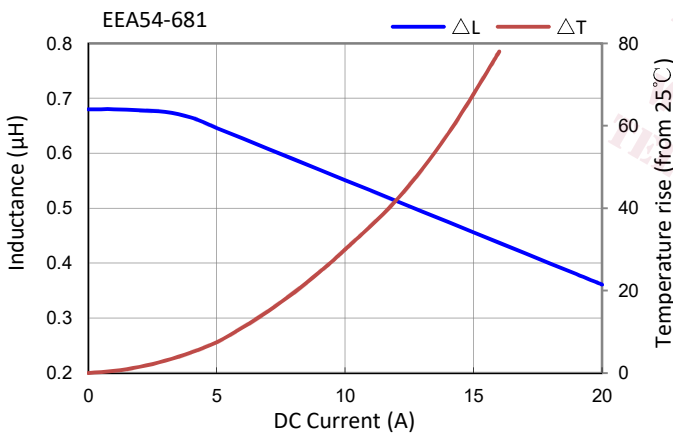
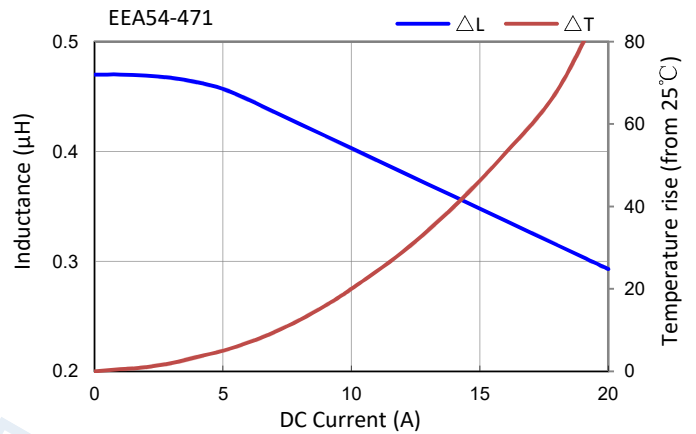
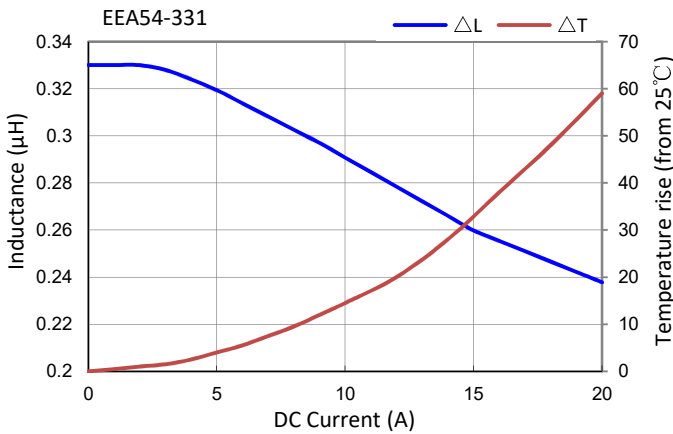


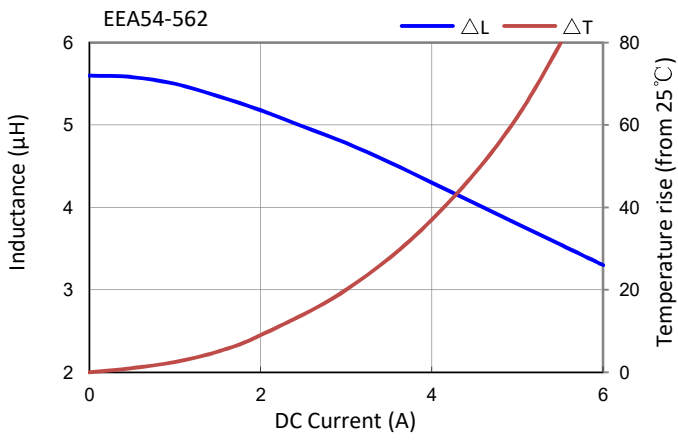
**EEA54**

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**大电流功率电感**

**Electrical Characteristic Curve**





**EASTEVEVER**  
ELECTRONICS  
WWW.YFBALUN.COM  
TEL:+86-756-8898808

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