

# HIGH CURRENT POWER INDUCTOR

## 大电流功率电感

EEA2212



### 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℃~+150℃.  
工作温度：-40℃~+150℃



### 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<br>料号 | Inductance<br>电感量<br>μH | DC resistance<br>直流电阻<br>mΩ max(typ.) | DC saturation current<br>直流饱和电流<br>A max. (typ.) |            |            | Temperature rise current<br>温升电流<br>A max. |          |
|-------------------|-------------------------|---------------------------------------|--------------------------------------------------|------------|------------|--------------------------------------------|----------|
|                   |                         |                                       | ΔL ≤ 10%                                         | ΔL ≤ 20%   | ΔL ≤ 30%   | ΔT ≤ 20℃                                   | ΔT ≤ 40℃ |
| EEA2212-332       | 3.3 ± 20%               | 2.0(1.8)                              | 32.0(37.8)                                       | 38.0(42.0) | 45.0(47.3) | 19.5                                       | 26.2     |
| EEA2212-682       | 6.8 ± 20%               | 2.6(2.3)                              | 210(27.5)                                        | 25.6(31.0) | 31.0(33.5) | 19.3                                       | 25.8     |
| EEA2212-822       | 8.2 ± 20%               | 3.1(2.7)                              | 19.7(25.3)                                       | 25.8(32.5) | 30.0(33.6) | 17.1                                       | 22.9     |
| EEA2212-103       | 10.0 ± 10%              | 3.9(3.5)                              | 15.4(20.5)                                       | 19.2(23.5) | 26.0(27.1) | 14.1                                       | 19.5     |
| EEA2212-123       | 12.0 ± 10%              | 5.0(4.1)                              | 13.8(19.0)                                       | 18.2(22.8) | 25.0(26.5) | 12.8                                       | 17.6     |
| EEA2212-223       | 22.0 ± 10%              | 8.1(7.0)                              | 13.0(17.0)                                       | 15.7(19.0) | 18.0(19.8) | 10.0                                       | 13.7     |
| EEA2212-333       | 33.0 ± 10%              | 15.2(13.4)                            | 11.3(15.8)                                       | 13.7(17.1) | 15.0(17.8) | 7.2                                        | 10.3     |
| EEA2212-473       | 47.0 ± 10%              | 22.08(19.8)                           | 10.4(13.3)                                       | 11.3(14.2) | 12.0(14.9) | 6.2                                        | 8.3      |
| EEA2212-683       | 68.0 ± 10%              | 31.4(26.6)                            | 8.5(11.5)                                        | 9.1(12.6)  | 9.5(13.2)  | 5.0                                        | 7.1      |
| EEA2212-823       | 82.0 ± 10%              | 35.0(30.4)                            | 7.3(9.2)                                         | 8.2(10.2)  | 8.5(10.7)  | 4.8                                        | 6.2      |

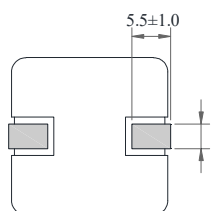
#### Remark

- 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℃

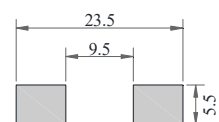
#### 备注

- 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℃

### Dimensions



SCHEMATIC



PCB LAYOUT

