

# SMT Power Inductor

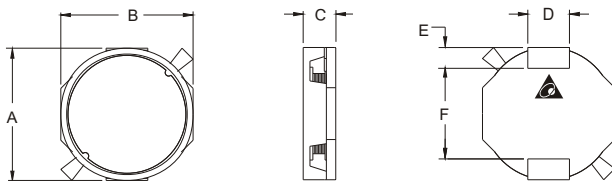
## SIWC1360 Type

### Features

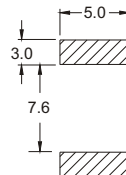
- RoHS compliant.
- Low profile (6.3mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



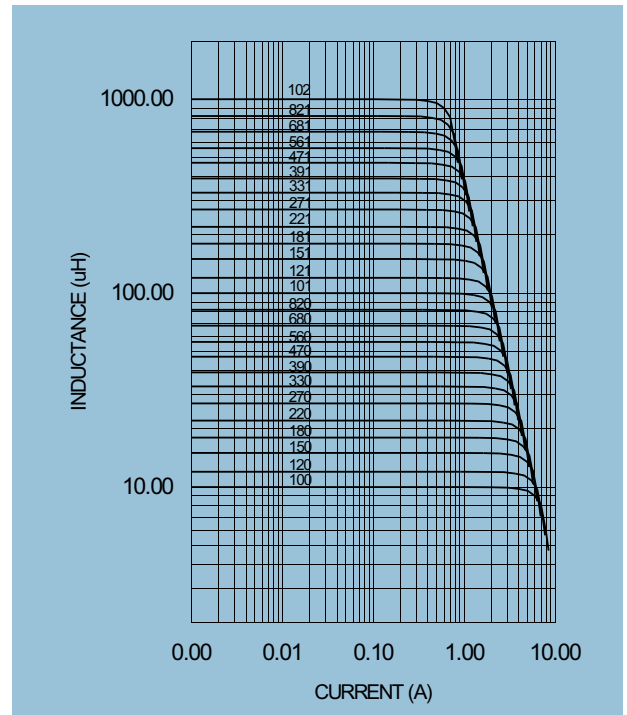
### RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 13.0 / 0.512 Max.  
 B = 13.0 / 0.512 Max.  
 C = 6.0 ± 0.3 / 0.236 ± 0.012  
 D = 4.0 / 0.157  
 E = 2.0 / 0.079  
 F = 8.6 ± 0.1 / 0.339 ± 0.004

### Electrical Characteristics: 25°C: 1KHz, 1V

| PART NO.       | L1<br>( $\mu$ H) | DCR<br>( $\Omega$ )MAX | I <sub>rated</sub> <sup>2</sup><br>(Adc) |
|----------------|------------------|------------------------|--|
| SIWC1360 - 100 | 10               | 0.022                  | 4.40                                     |
| SIWC1360 - 120 | 12               | 0.027                  | 4.20                                     |
| SIWC1360 - 150 | 15               | 0.034                  | 4.00                                     |
| SIWC1360 - 180 | 18               | 0.038                  | 3.50                                     |
| SIWC1360 - 220 | 22               | 0.044                  | 3.20                                     |
| SIWC1360 - 270 | 27               | 0.048                  | 2.90                                     |
| SIWC1360 - 330 | 33               | 0.059                  | 2.50                                     |
| SIWC1360 - 390 | 39               | 0.078                  | 2.10                                     |
| SIWC1360 - 470 | 47               | 0.084                  | 2.00                                     |
| SIWC1360 - 560 | 56               | 0.100                  | 1.90                                     |
| SIWC1360 - 680 | 68               | 0.113                  | 1.80                                     |
| SIWC1360 - 820 | 82               | 0.137                  | 1.50                                     |
| SIWC1360 - 101 | 100              | 0.152                  | 1.50                                     |
| SIWC1360 - 121 | 120              | 0.197                  | 1.30                                     |
| SIWC1360 - 151 | 150              | 0.239                  | 1.30                                     |
| SIWC1360 - 181 | 180              | 0.302                  | 1.10                                     |
| SIWC1360 - 221 | 220              | 0.341                  | 1.10                                     |
| SIWC1360 - 271 | 270              | 0.428                  | 0.98                                     |
| SIWC1360 - 331 | 330              | 0.510                  | 0.86                                     |
| SIWC1360 - 391 | 390              | 0.587                  | 0.83                                     |
| SIWC1360 - 471 | 470              | 0.765                  | 0.70                                     |
| SIWC1360 - 561 | 560              | 0.872                  | 0.70                                     |
| SIWC1360 - 681 | 680              | 1.162                  | 0.62                                     |
| SIWC1360 - 821 | 820              | 1.313                  | 0.57                                     |
| SIWC1360 - 102 | 1000             | 1.586                  | 0.46                                     |



1. Tolerance of inductance : ± 20%.
2. I<sub>rated</sub> is the DC current which cause the inductance drop less than 20% of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature: -20°C to 105°C (including self-temperature rise).



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