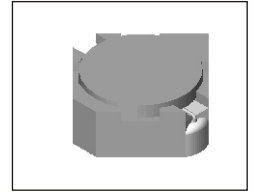


SMT Power Inductor

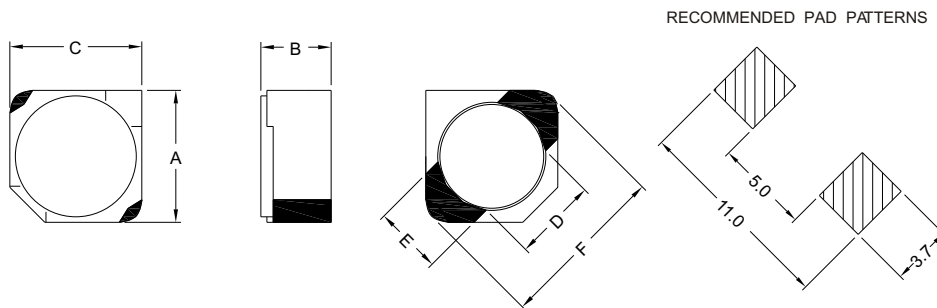
SILM827, 828, 830, 845, 855 & 865 Type

Features

- RoHS compliant.
- Low profile, 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 applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



UNIT:mm/inch
 A = 7.5 ± 0.3 / 0.295 ± 0.012
 C = 7.5 ± 0.3 / 0.295 ± 0.012
 D = 5.9 ± 0.5 / 0.232 ± 0.020
 E = 3.0 ± 0.5 / 0.118 ± 0.020
 F = 10.0 / 0.394 MAX

Electrical Characteristics: 25°C: 100KHz, 0.1V

| PART NO. | L ¹ (uH) | DCR (mΩ) MAX | I _{rated} ² (Adc) | HEIGHT "B" (mm)MAX |
|---------------|------------------------|-----------------|--|-----------------------|
| SILM827 - 3R3 | 3.3 | 35 | 4.70 | 2.7 |
| SILM828 - 5R6 | 5.6 | 45 | 3.30 | 2.8 |
| SILM830 - 1R2 | 1.2 | 15 | 8.50 | 3.0 |
| SILM830 - 1R8 | 1.8 | 18 | 6.50 | 3.0 |
| SILM830 - 2R5 | 2.5 | 21 | 5.40 | 3.0 |
| SILM830 - 3R3 | 3.3 | 27 | 4.80 | 3.0 |
| SILM830 - 4R7 | 4.7 | 32 | 4.00 | 3.0 |
| SILM830 - 5R6 | 5.6 | 41 | 3.60 | 3.0 |
| SILM830 - 6R4 | 6.4 | 52 | 3.30 | 3.0 |
| SILM830 - 100 | 10.0 | 72 | 2.70 | 3.0 |
| SILM830 - 150 | 15.0 | 110 | 2.20 | 3.0 |
| SILM830 - 220 | 22.0 | 140 | 1.85 | 3.0 |
| SILM830 - 470 | 47.0 | 300 | 0.93 | 3.0 |
| SILM830 - 680 | 68.0 | 480 | 0.77 | 3.0 |
| SILM830 - 392 | 3900.0 | 31000 | 0.14 | 3.0 |
| SILM845 - 2R5 | 2.5 | 14 | 6.40 | 4.5 |
| SILM845 - 3R0 | 3.0 | 20 | 5.40 | 4.5 |
| SILM845 - 4R7 | 4.7 | 27 | 4.50 | 4.5 |
| SILM845 - 6R0 | 6.0 | 35 | 4.30 | 4.5 |
| SILM845 - 7R0 | 7.0 | 40 | 4.10 | 4.5 |
| SILM845 - 100 | 10.0 | 42 | 3.40 | 4.5 |
| SILM845 - 120 | 12.0 | 50 | 3.20 | 4.5 |
| SILM845 - 150 | 15.0 | 70 | 2.80 | 4.5 |
| SILM845 - 220 | 22.0 | 94 | 2.30 | 4.5 |
| SILM845 - 122 | 1200.0 | 3700 | 0.28 | 4.5 |
| SILM855 - 150 | 15.0 | 54 | 2.50 | 5.5 |
| SILM865 - 220 | 22.0 | 48 | 2.05 | 6.5 |

1. Tolerance of inductance : ± 30%.
2. I_{rated} is the DC current which cause the inductance drop 35% 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).



DELTA ELECTRONICS, INC.

(TAOYUAN PLANT CPBG) 252, SAN YING ROAD, KUEISAN INDUSTRIAL ZONE, TAOYUAN SHIEN, 333, TAIWAN, R.O.C.

TEL: 886-3-3591968; FAX: 886-3-3591991

<http://www.deltaww.com>