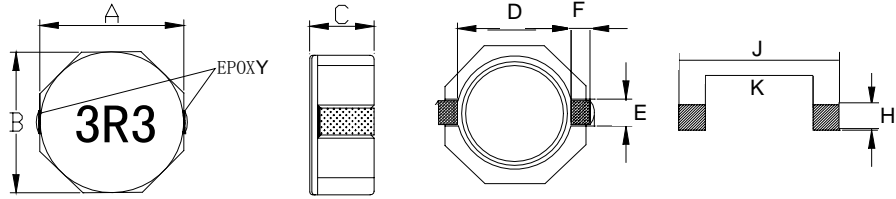


SMD Power Inductor – SDRH



Features

- Magnetically shielded construction
- RoHS compliance

Applications

- LCD TV
- DC to DC Converters
- Notebook PC

Characteristics

- Rated DC Current: The current when the inductance becomes 35% lower than its initial value.
- Operating temperature: -40~85°C

Dimensions

Unit: mm

| Codes | A | B | C max. | D ref | E ref | F ref | H | J | K |
|----------|---------|---------|--------|-------|-------|-------|-----|------|-----|
| SDRH0830 | 8.0±0.3 | 8.0±0.3 | 3.0 | 6.3 | 2.5 | 1.2 | 2.8 | 10.1 | 6.1 |
| SDRH0840 | 8.0±0.3 | 8.0±0.3 | 4.0 | 6.3 | 2.5 | 1.2 | 2.8 | 10.1 | 6.1 |
| SDRH0845 | 8.0±0.3 | 8.0±0.3 | 4.5 | 6.3 | 2.5 | 1.2 | 2.8 | 10.1 | 6.1 |

Inductance and rated current ranges

- SDRH0830 1.0~100μH 6.5~0.75A
- SDRH0840 1.8~100μH 7.0~1.05A
- SDRH0845 1.0~100μH 9.0~1.30A
- Electrical specifications at 25°C

Product Identification

| SDRH | 0830 | N | T | 101 |
|--------------|---|--------------------|------------------|---------------------------------------|
| Product Type | Dimensions (AxBxC) | Inductor Tolerance | Packaging Style | Inductance |
| | 0830: 8.0x8.0x3.0 0840: 8.0x8.0x4.0 0845: 8.0x8.0x4.5 | N: ±30% | T: Tape and Reel | 1R1: 1.1μH 470: 47μH 101: 100μH |

Electrical Characteristics

| Codes | L (μH) | Tolerance | DCR (mΩ) max. | | | IDC (A) max. | | |
|-------|--------|-----------|---------------|------|------|--------------|------|------|
| | | | 0830 | 0840 | 0845 | 0830 | 0840 | 0845 |
| 1R0 | 1.0 | N | 11.0 | - | 9.50 | 6.5 | - | 9.0 |
| 1R2 | 1.2 | N | - | - | 12.2 | - | - | 8.0 |
| 1R8 | 1.8 | N | - | 15.6 | - | - | 7.0 | - |
| 2R0 | 2.0 | N | - | - | 14.0 | - | - | 7.0 |
| 2R5 | 2.5 | N | 15.6 | 17.5 | - | 4.5 | 6.5 | - |
| 3R3 | 3.3 | N | 18.2 | - | - | 4.0 | - | - |
| 3R5 | 3.5 | N | - | 24.0 | - | - | 5.0 | - |
| 3R9 | 3.9 | N | - | - | 19.0 | - | - | 5.9 |
| 4R7 | 4.7 | N | 24.7 | 29.0 | 22.0 | 3.4 | 4.6 | 5.6 |
| 6R0 | 6.0 | N | - | 32.0 | - | - | 4.2 | - |
| 6R8 | 6.8 | N | - | - | 25.0 | - | - | 4.4 |
| 7R3 | 7.3 | N | 39.0 | - | - | 2.80 | - | - |
| 100 | 10 | N | 47.0 | 48.0 | 36.0 | 2.50 | 3.00 | 4.0 |
| 150 | 15 | N | 69.0 | 67.0 | 53.0 | 1.90 | 2.75 | 2.9 |
| 220 | 22 | N | 99.0 | 105 | 75.0 | 1.60 | 2.30 | 2.6 |
| 330 | 33 | N | 156 | 157 | 125 | 1.30 | 1.75 | 2.2 |
| 470 | 47 | N | 195 | 189 | 150 | 1.15 | 1.52 | 1.8 |
| 680 | 68 | N | 286 | 290 | 240 | 0.92 | 1.30 | 1.5 |
| 101 | 100 | N | 430 | 410 | 360 | 0.75 | 1.05 | 1.3 |

Test Condition:

- 0830 Type: 100KHz, 0.25V
- 0840 / 0845 Type: 100KHz, 0.1V