

Application Field

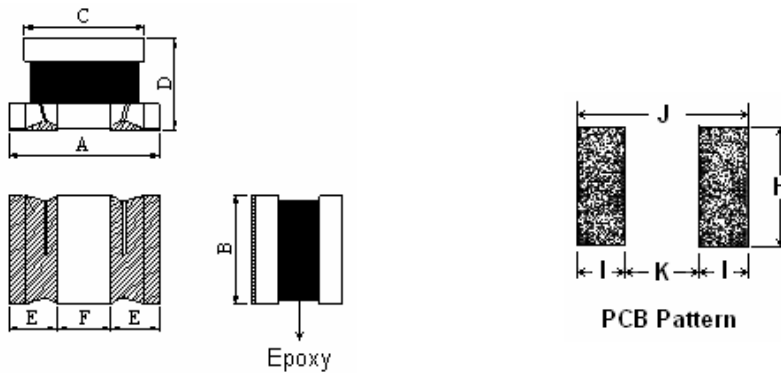
- Personal computers.
- Disk Drives and computer peripherals.
- DC Power supply circuit.
- For Small DC-DC converter (cellular phone, HDD,DVC,DSC,PDA,LCD disply etc)



Features

- Low DC resistance, High current capacity and high impedance characteristics
- Excellent solder heat resistance, Both flow and reflow soldering methods can be employed.

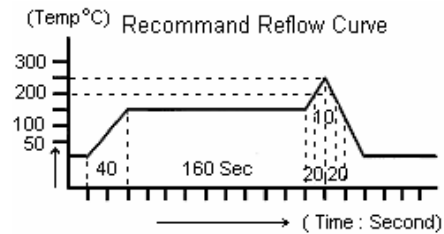
Dimensions and footprint (unit:mm)



| Type | A | B | C | D | E | F | H | J | K |
|------------|-----------|-----------|-----------|-----------|--------|--------|-----|-----|-----|
| SDIA201514 | 2.0 ± 0.3 | 1.7 ± 0.3 | 1.5 ± 0.3 | 1.4 ± 0.4 | 1.0min | 0.5min | 2.1 | 2.7 | 0.8 |
| SDIA201609 | 2.0 ± 0.3 | 1.6 ± 0.3 | 2.0 ± 0.3 | 0.9 ± 0.2 | 0.6ref | 0.8ref | 2.2 | 2.6 | 0.6 |
| SDIA252018 | 2.5 ± 0.3 | 2.0 ± 0.3 | 2.0 ± 0.3 | 1.8 ± 0.2 | 1.2min | 0.6min | 2.6 | 3.2 | 1.1 |
| SDIA321618 | 3.2 ± 0.3 | 1.6 ± 0.2 | 2.3 ± 0.2 | 1.8 ± 0.4 | 0.9min | 1.3min | 2.1 | 3.9 | 1.0 |
| SDIA322516 | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.5 ± 0.2 | 1.6 ± 0.4 | 0.9min | 1.3min | 3.0 | 3.9 | 1.0 |
| SDIA322520 | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.5 ± 0.2 | 2.0 ± 0.4 | 0.9min | 1.3min | 3.0 | 3.9 | 1.0 |
| SDIA3225C | 3.2 ± 0.3 | 2.5 ± 0.2 | 2.5 ± 0.2 | 2.0 ± 0.4 | 0.9min | 1.3min | 3.0 | 3.9 | 1.0 |
| SDIA453226 | 4.5 ± 0.3 | 3.2 ± 0.2 | 3.6 ± 0.2 | 2.6 ± 0.4 | 1.4ref | 1.7ref | 3.7 | 5.2 | 1.0 |
| SDIA4532C | 4.5 ± 0.3 | 3.2 ± 0.2 | 3.6 ± 0.2 | 2.6 ± 0.4 | 1.4ref | 1.7ref | 3.7 | 5.2 | 1.0 |
| SDIA565016 | 5.7 ± 0.3 | 5.0 ± 0.2 | 5.0 ± 0.2 | 1.6 ± 0.3 | 1.7ref | 2.0ref | 5.6 | 6.4 | 1.5 |

General Specification:

1. Storage temp: -40°C ~ +125°C
2. Operating temp: -25°C ~ +105°C
3. Resistance to solder heat : 250°C 10secs



SDIA 565016 Series

| Part No | L(μ H) | RDC(Ω)Max | IDC (A)Min |
|-----------------|-------------|--------------------|------------|
| SDIA 565016-1R0 | 1.0 | 0.06 | 3.52 |
| SDIA 565016-1R5 | 1.5 | 0.08 | 2.86 |
| SDIA 565016-2R2 | 2.2 | 0.11 | 2.51 |
| SDIA 565016-2R8 | 2.8 | 0.13 | 2.25 |
| SDIA 565016-3R5 | 3.5 | 0.16 | 2.00 |
| SDIA 565016-4R7 | 4.7 | 0.20 | 1.80 |
| SDIA 565016-5R6 | 5.6 | 0.25 | 1.59 |
| SDIA 565016-6R8 | 6.8 | 0.28 | 1.45 |
| SDIA 565016-8R2 | 8.2 | 0.37 | 1.27 |
| SDIA 565016-100 | 10 | 0.41 | 1.21 |
| SDIA 565016-120 | 12 | 0.44 | 1.12 |
| SDIA 565016-150 | 15 | 0.58 | 0.99 |
| SDIA 565016-180 | 18 | 0.73 | 0.93 |
| SDIA 565016-220 | 22 | 0.85 | 0.83 |
| SDIA 565016-270 | 27 | 1.06 | 0.78 |
| SDIA 565016-330 | 33 | 1.33 | 0.70 |
| SDIA 565016-390 | 39 | 1.59 | 0.64 |
| SDIA 565016-470 | 47 | 2.01 | 0.59 |

SDIA 565012-xxx K-E Code "-E" : Lead free process and RoHs compliant

Inductance tolerance : N \pm 30% M \pm 20% L \pm 15% K \pm 10% IDC : Δ L / L (0A) \leq 10%

Frequency : 1.0 μ H ~ 6R8 μ H @ 100KHz / 0.25V, 10 μ H ~ 47 μ H / 1KHz / 0.25V