

# SMT Power Inductor

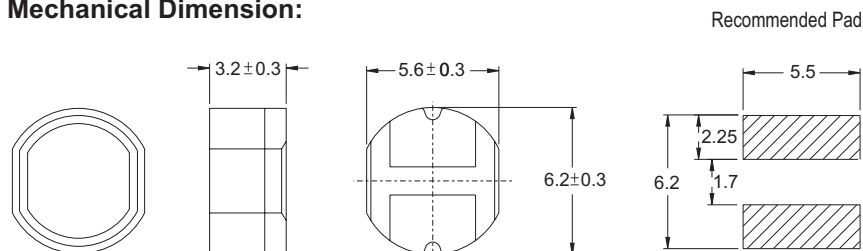
## SIR74 Type

### Features

- Low profile (3.5mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- Self-leads, 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, custom inductors are available to meet your exact requirements.



### Mechanical Dimension:



### Electrical Characteristics:

| PART NO.    | L*<br>(uH) | DCR<br>(Ω) MAX | I <sub>RATED</sub> **<br>(Adc) |
|-------------|------------|----------------|--------------------------------|
| SIR74 - 100 | 10         | 0.140          | 1.00                           |
| SIR74 - 120 | 12         | 0.160          | 0.94                           |
| SIR74 - 150 | 15         | 0.180          | 0.86                           |
| SIR74 - 180 | 18         | 0.250          | 0.78                           |
| SIR74 - 220 | 22         | 0.320          | 0.76                           |
| SIR74 - 270 | 27         | 0.360          | 0.64                           |
| SIR74 - 330 | 33         | 0.410          | 0.61                           |
| SIR74 - 390 | 39         | 0.470          | 0.53                           |
| SIR74 - 470 | 47         | 0.510          | 0.50                           |
| SIR74 - 560 | 56         | 0.720          | 0.46                           |
| SIR74 - 680 | 68         | 0.820          | 0.42                           |

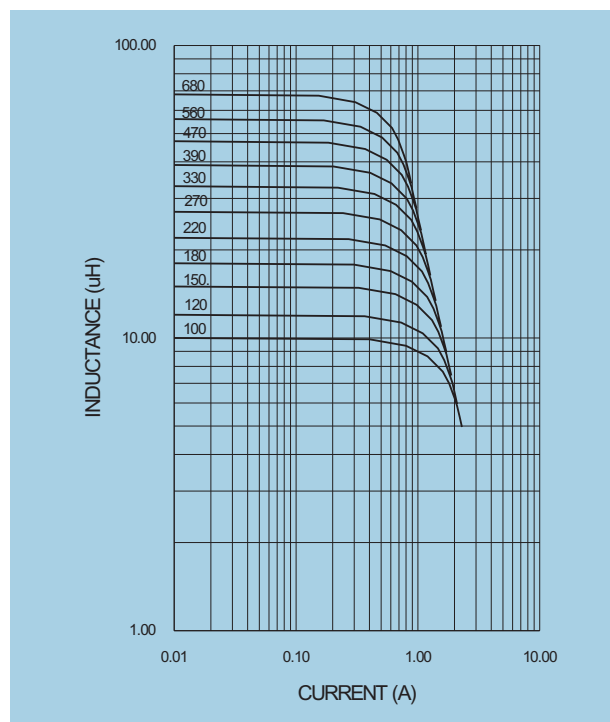
★ Tolerance of inductance

10~27uH±20% 33~68uH±15%

★★ I<sub>RATED</sub>: rated current. ΔL<10%, ΔT<45°C at I<sub>RATED</sub>

★★★ Operating temperature: -20°C to 105°C (including self-temperature rise)

★★★★ Test condition at 25°C: 100KHz, 0.1V



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