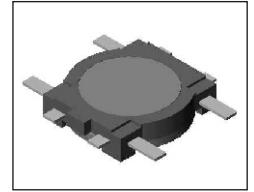


# SMT Power Inductor

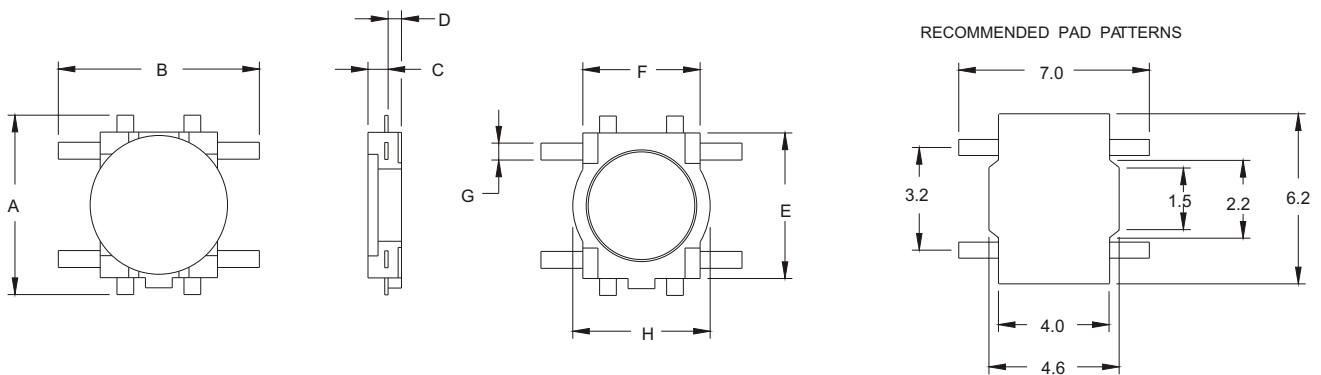
## SIT606 Type

### Features

- RoHS compliant.
- Small size (5.3mm\*6.0mm), low profile (0.8mm max. height) SMD type.
- Unshielded.
- 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:



| UNIT | A          | B     | C          | D     | E     | F     | G    | H     |
|------|------------|-------|------------|-------|-------|-------|------|-------|
| mm   | 5.800 Max. | 6.000 | 0.800 Max. | 0.400 | 4.300 | 3.500 | 0.50 | 4.100 |
| inch | 0.228 Max. | 0.236 | 0.031 Max. | 0.016 | 0.169 | 0.138 | 0.02 | 0.161 |

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

| PART NO.     | L <sup>1</sup><br>(uH) | DCR<br>(mΩ) MAX | I <sub>rated</sub> <sup>2</sup><br>(A <sub>dc</sub> ) |
|--------------|------------------------|-----------------|---|
| SIT606 - 2R2 | 2.2                    | 0.116           | 0.95  |
| SIT606 - 3R3 | 3.3                    | 0.174           | 0.77  |
| SIT606 - 4R7 | 4.7                    | 0.216           | 0.75  |
| SIT606 - 6R8 | 6.8                    | 0.296           | 0.62  |
| SIT606 - 100 | 10.0                   | 0.457           | 0.50  |
| SIT606 - 150 | 15.0                   | 0.676           | 0.40  |
| SIT606 - 220 | 22.0                   | 1.066           | 0.30  |
| SIT606 - 330 | 33.0                   | 1.647           | 0.24  |
| SIT606 - 470 | 47.0                   | 2.843           | 0.18  |

1. Tolerance of inductance: ±20%.
2. I<sub>rated</sub> is the DC current which cause the inductance drop 10% typical 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.deltawww.com>