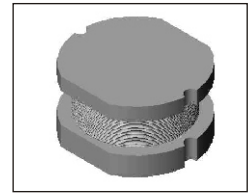


# SMT Power Inductor

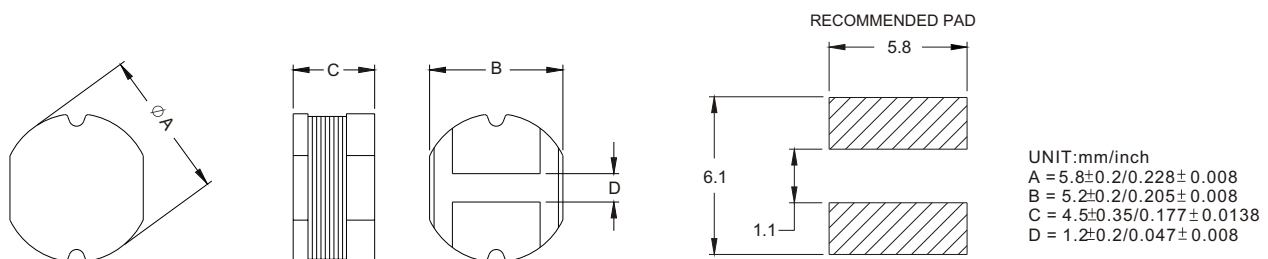
## SI65 Type

### Features

- Low profile (4.85mm max. height) SMD type.
- Unshielded.
- 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 application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.

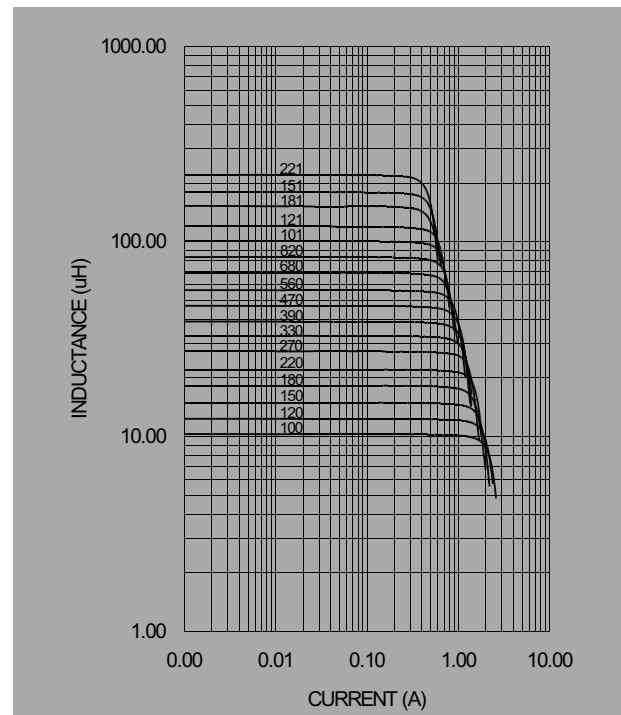


### Mechanical Dimension:



### Electrical Characteristics: At 25°C: 1KHz, 1V

| PART NO.   | $L^1$<br>( $\mu$ H) | DCR<br>( $\Omega$ ) MAX | $I_{RATED}^2$<br>(A $\cdot$ c) |
|------------|---------------------|-------------------------|--------------------------------|
| SI65 - 100 | 10                  | 0.10                    | 1.5                            |
| SI65 - 120 | 12                  | 0.12                    | 1.4                            |
| SI65 - 150 | 15                  | 0.14                    | 1.3                            |
| SI65 - 180 | 18                  | 0.15                    | 1.2                            |
| SI65 - 220 | 22                  | 0.18                    | 1.1                            |
| SI65 - 270 | 27                  | 0.20                    | 0.97                           |
| SI65 - 330 | 33                  | 0.23                    | 0.88                           |
| SI65 - 390 | 39                  | 0.32                    | 0.80                           |
| SI65 - 470 | 47                  | 0.37                    | 0.72                           |
| SI65 - 560 | 56                  | 0.42                    | 0.68                           |
| SI65 - 680 | 68                  | 0.46                    | 0.61                           |
| SI65 - 820 | 82                  | 0.60                    | 0.58                           |
| SI65 - 101 | 100                 | 0.70                    | 0.52                           |
| SI65 - 121 | 120                 | 0.93                    | 0.48                           |
| SI65 - 151 | 150                 | 1.10                    | 0.40                           |
| SI65 - 181 | 180                 | 1.38                    | 0.38                           |
| SI65 - 221 | 220                 | 1.57                    | 0.35                           |



1. Tolerance of inductance  
10~220 $\mu$ H $\pm$ 10%
2.  $I_{RATED}$  : rated current.  $\Delta L < 10\%$ ,  $\Delta T < 45^\circ\text{C}$  at  $I_{RATED}$
3. Operating temperature:  $-20^\circ\text{C}$  to  $105^\circ\text{C}$  (including self-temperature rise)



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