



## 6mm Shielded SMD Power Inductors ~ SDS65 series

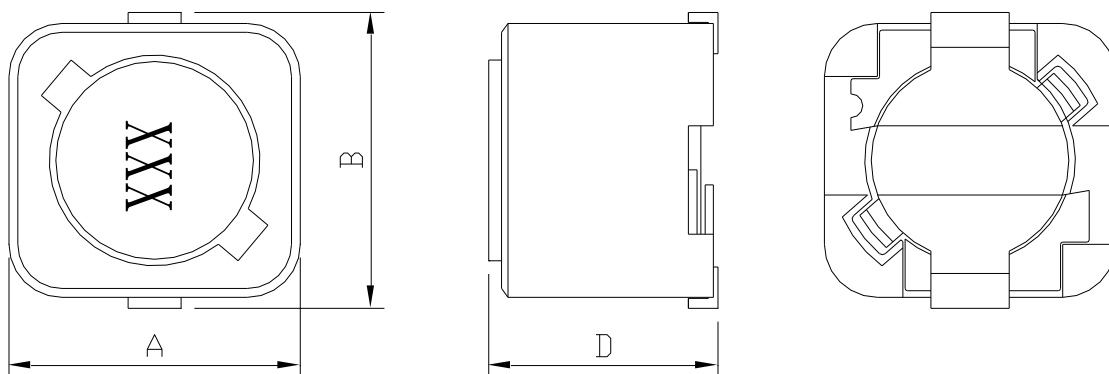


### PART NUMBERING SYSTEM

|            |            |   |                |   |            |
|------------|------------|---|----------------|---|------------|
| <b>SDS</b> | <b>65</b>  | — | <b>1 5 0 M</b> | — | <b>L F</b> |
| TYPE       | DIMENSIONS |   | INDUCTANCE     |   | LEAD FREE  |

### SHAPES AND DIMENSIONS

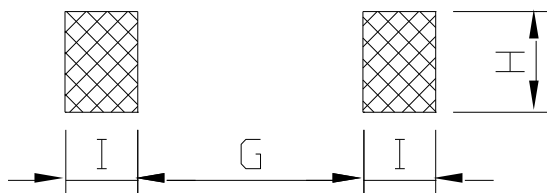
UNIT : mm



A= 6.50 Max.    B= 6.90 Max.    C= 5.00 Max.

### RECOMMENDED PATTERNS

UNIT : mm



G=4.6    B=1.9    D=1.4



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### SPECIFICATION TABLE

| PART NUMBER   | INDUCTANCE<br>( $\mu$ H) | DCR ( $\Omega$ )<br>(Max.) | IDC (A)<br>(Max.) | TEST FREQ.<br>( f ) |
|---------------|--------------------------|----------------------------|-------------------|---------------------|
| SDS65-100M-LF | 10 $\pm$ 20%             | 0.12                       | 1.35              | 1KHz/0.25V          |
| SDS65-120M-LF | 12 $\pm$ 20%             | 0.13                       | 1.22              | 1KHz/0.25V          |
| SDS65-150M-LF | 15 $\pm$ 20%             | 0.18                       | 1.11              | 1KHz/0.25V          |
| SDS65-180M-LF | 18 $\pm$ 20%             | 0.24                       | 1.02              | 1KHz/0.25V          |
| SDS65-220M-LF | 22 $\pm$ 20%             | 0.27                       | 0.91              | 1KHz/0.25V          |
| SDS65-270M-LF | 27 $\pm$ 20%             | 0.30                       | 0.82              | 1KHz/0.25V          |
| SDS65-330M-LF | 33 $\pm$ 20%             | 0.33                       | 0.74              | 1KHz/0.25V          |
| SDS65-390M-LF | 39 $\pm$ 20%             | 0.37                       | 0.69              | 1KHz/0.25V          |
| SDS65-470M-LF | 47 $\pm$ 20%             | 0.52                       | 0.62              | 1KHz/0.25V          |
| SDS65-560M-LF | 56 $\pm$ 20%             | 0.56                       | 0.58              | 1KHz/0.25V          |
| SDS65-680M-LF | 68 $\pm$ 20%             | 0.63                       | 0.51              | 1KHz/0.25V          |
| SDS65-820M-LF | 82 $\pm$ 20%             | 0.71                       | 0.46              | 1KHz/0.25V          |
| SDS65-101M-LF | 100 $\pm$ 20%            | 1.03                       | 0.42              | 1KHz/0.25V          |
| SDS65-121M-LF | 120 $\pm$ 20%            | 1.15                       | 0.38              | 1KHz/0.25V          |
| SDS65-151M-LF | 150 $\pm$ 20%            | 1.68                       | 0.35              | 1KHz/0.25V          |
| SDS65-181M-LF | 180 $\pm$ 20%            | 1.87                       | 0.32              | 1KHz/0.25V          |
| SDS65-221M-LF | 220 $\pm$ 20%            | 2.08                       | 0.29              | 1KHz/0.25V          |
| SDS65-271M-LF | 270 $\pm$ 20%            | 2.37                       | 0.26              | 1KHz/0.25V          |
| SDS65-331M-LF | 330 $\pm$ 20%            | 2.67                       | 0.23              | 1KHz/0.25V          |
| SDS65-391M-LF | 390 $\pm$ 20%            | 2.94                       | 0.22              | 1KHz/0.25V          |
| SDS65-471M-LF | 470 $\pm$ 20%            | 3.93                       | 0.20              | 1KHz/0.25V          |
| SDS65-561M-LF | 560 $\pm$ 20%            | 5.43                       | 0.18              | 1KHz/0.25V          |
| SDS65-681M-LF | 680 $\pm$ 20%            | 7.32                       | 0.17              | 1KHz/0.25V          |
| SDS65-821M-LF | 820 $\pm$ 20%            | 8.24                       | 0.15              | 1KHz/0.25V          |
| SDS65-102M-LF | 1000 $\pm$ 20%           | 9.26                       | 0.14              | 1KHz/0.25V          |

- DC current at which the inductance drops 25% (typ) from its value without current.
- Operating temperature range -40°C to +125°C ,
- Electrical specifications at 20°C .
- Customized specifications available



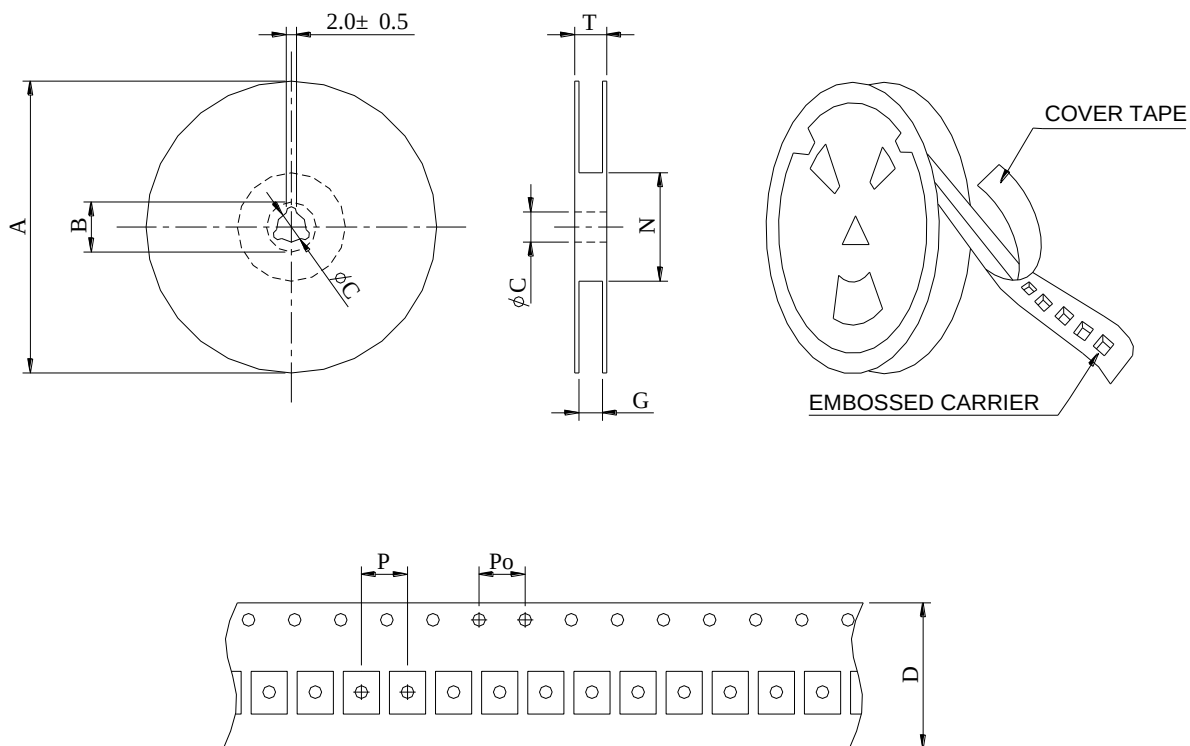
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## PACKAGING SPECIFICATION



| SERIES | STAYLE | Q'TY<br>(PCS) | DIMENSIONS (m/m) |       |       |    |                 |                 |    |    |      |
|--------|--------|---------------|------------------|-------|-------|----|-----------------|-----------------|----|----|------|
|        |        |               | A                | B±0.8 | C±0.5 | D  | G <sup>+0</sup> | N <sup>-0</sup> | P  | Po | T    |
| SDS65  | 13-16  | 1000          | 330              | 21    | 13    | 16 | 18              | 50              | 12 | 4  | 22.4 |