



## SDS65 SERIES ~ Shielded SMD Power Inductors

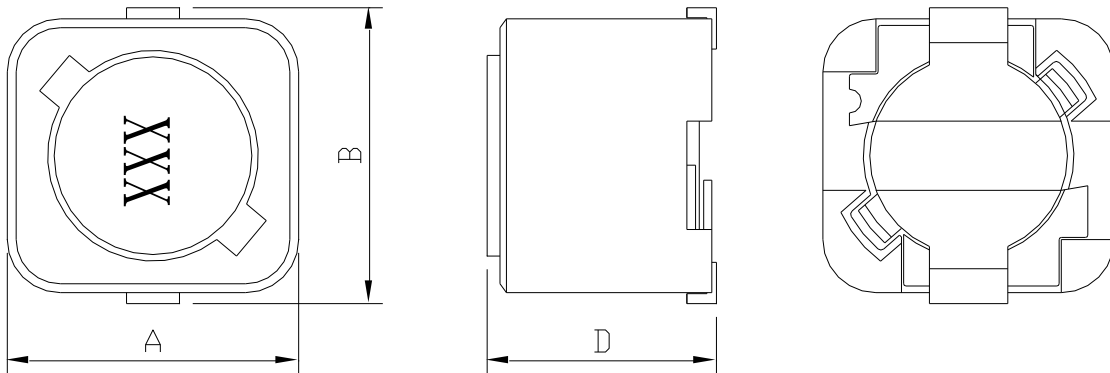


### PART NUMBERING SYSTEM

|                   |                   |   |                    |   |                  |
|-------------------|-------------------|---|--------------------|---|------------------|
| <u><b>SDS</b></u> | <u><b>6 5</b></u> | — | <u><b>150M</b></u> | — | <u><b>LF</b></u> |
| TYPE              | DIMENSIONS        |   | INDUCTANCE         |   | LEAD FREE        |

### SHAPES AND DIMENSIONS

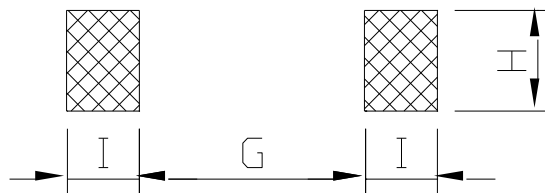
UNIT : mm



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

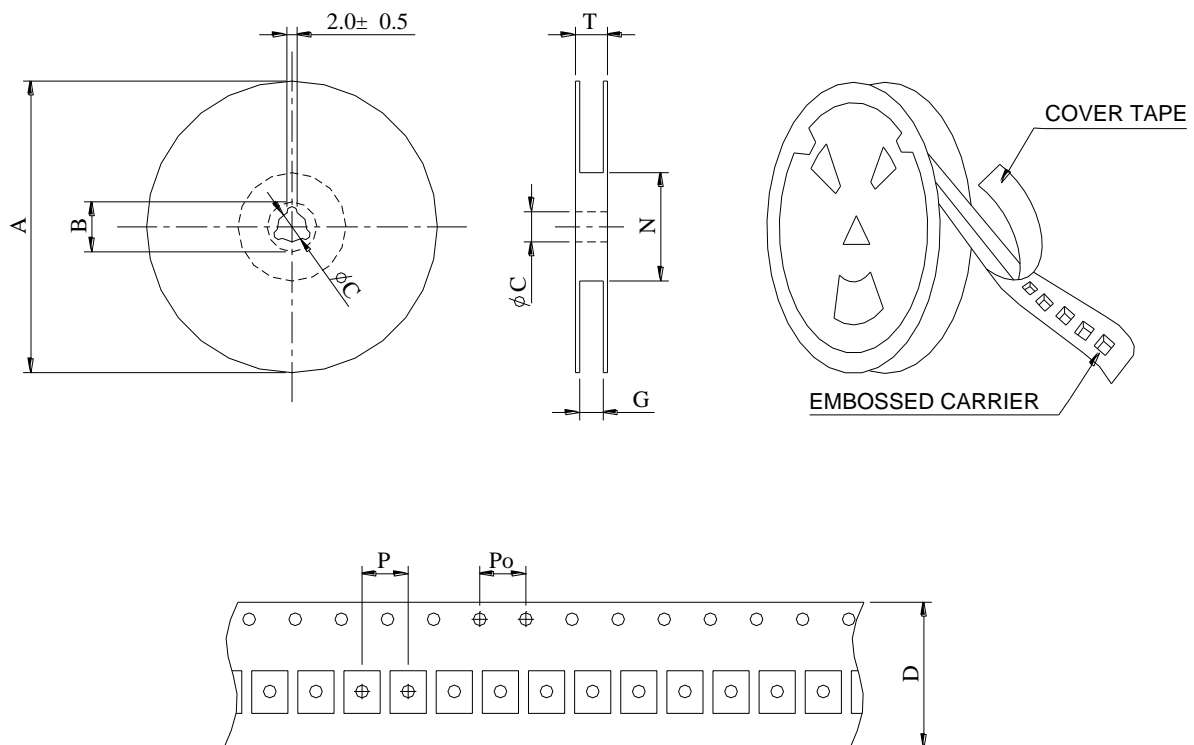
| PART NUMBER                   | INDUCTANCE<br>( $\mu$ H) | DCR ( $\Omega$ )<br>(Max.) | IDC (A)<br>(Max.) | TEST FREQ.<br>( f ) |
|-------------------------------|--------------------------|----------------------------|-------------------|---------------------|
| <a href="#">SDS65-100M-LF</a> | 10 $\pm$ 20%             | 0.12                       | 1.35              | 1KHz/0.1V           |
| <a href="#">SDS65-120M-LF</a> | 12 $\pm$ 20%             | 0.13                       | 1.22              | 1KHz/0.1V           |
| <a href="#">SDS65-150M-LF</a> | 15 $\pm$ 20%             | 0.18                       | 1.11              | 1KHz/0.1V           |
| <a href="#">SDS65-180M-LF</a> | 18 $\pm$ 20%             | 0.24                       | 1.02              | 1KHz/0.1V           |
| <a href="#">SDS65-220M-LF</a> | 22 $\pm$ 20%             | 0.27                       | 0.91              | 1KHz/0.1V           |
| <a href="#">SDS65-270M-LF</a> | 27 $\pm$ 20%             | 0.30                       | 0.82              | 1KHz/0.1V           |
| <a href="#">SDS65-330M-LF</a> | 33 $\pm$ 20%             | 0.33                       | 0.74              | 1KHz/0.1V           |
| <a href="#">SDS65-390M-LF</a> | 39 $\pm$ 20%             | 0.37                       | 0.69              | 1KHz/0.1V           |
| <a href="#">SDS65-470M-LF</a> | 47 $\pm$ 20%             | 0.52                       | 0.62              | 1KHz/0.1V           |
| <a href="#">SDS65-560M-LF</a> | 56 $\pm$ 20%             | 0.56                       | 0.58              | 1KHz/0.1V           |
| <a href="#">SDS65-680M-LF</a> | 68 $\pm$ 20%             | 0.63                       | 0.51              | 1KHz/0.1V           |
| <a href="#">SDS65-820M-LF</a> | 82 $\pm$ 20%             | 0.71                       | 0.46              | 1KHz/0.1V           |
| <a href="#">SDS65-101M-LF</a> | 100 $\pm$ 20%            | 1.03                       | 0.42              | 1KHz/0.1V           |
| <a href="#">SDS65-121M-LF</a> | 120 $\pm$ 20%            | 1.15                       | 0.38              | 1KHz/0.1V           |
| <a href="#">SDS65-151M-LF</a> | 150 $\pm$ 20%            | 1.68                       | 0.35              | 1KHz/0.1V           |
| <a href="#">SDS65-181M-LF</a> | 180 $\pm$ 20%            | 1.87                       | 0.32              | 1KHz/0.1V           |
| <a href="#">SDS65-221M-LF</a> | 220 $\pm$ 20%            | 2.08                       | 0.29              | 1KHz/0.1V           |
| <a href="#">SDS65-271M-LF</a> | 270 $\pm$ 20%            | 2.37                       | 0.26              | 1KHz/0.1V           |
| <a href="#">SDS65-331M-LF</a> | 330 $\pm$ 20%            | 2.67                       | 0.23              | 1KHz/0.1V           |
| <a href="#">SDS65-391M-LF</a> | 390 $\pm$ 20%            | 2.94                       | 0.22              | 1KHz/0.1V           |
| <a href="#">SDS65-471M-LF</a> | 470 $\pm$ 20%            | 3.93                       | 0.20              | 1KHz/0.1V           |
| <a href="#">SDS65-561M-LF</a> | 560 $\pm$ 20%            | 5.43                       | 0.18              | 1KHz/0.1V           |
| <a href="#">SDS65-681M-LF</a> | 680 $\pm$ 20%            | 7.32                       | 0.17              | 1KHz/0.1V           |
| <a href="#">SDS65-821M-LF</a> | 820 $\pm$ 20%            | 8.24                       | 0.15              | 1KHz/0.1V           |
| <a href="#">SDS65-102M-LF</a> | 1000 $\pm$ 20%           | 9.26                       | 0.14              | 1KHz/0.1V           |

- DC current at which the inductance drops 25% (typ) from its value without current.
- Operating temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C ,
- Electrical specifications at 20 $^{\circ}$ C .

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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              | 8 | 4  | 22.4 |