



## SDS127LD SERIES ~ Shielded SMD Power Inductors

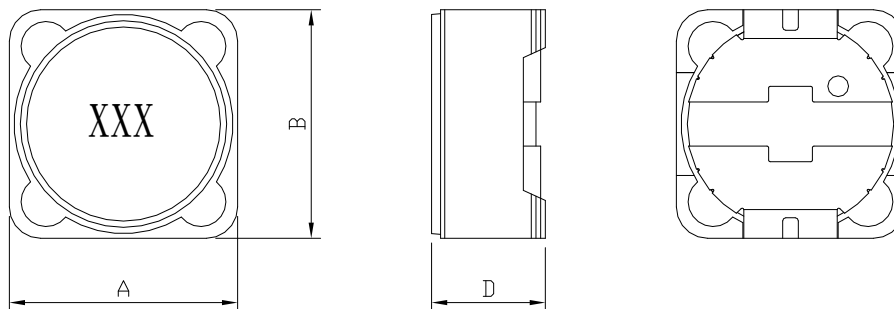


**PART NUMBERING SYSTEM (PLATING / SOLDER : TIN-SILVER-COPPER (95.5%/4.0%/0.5%))**

|            |              |   |             |   |           |
|------------|--------------|---|-------------|---|-----------|
| <b>SDS</b> | <b>127LD</b> | — | <b>330M</b> | — | <b>LF</b> |
| TYPE       | DIMENSIONS   |   | INDUCTANCE  |   | LEAD FREE |

### SHAPES AND DIMENSIONS

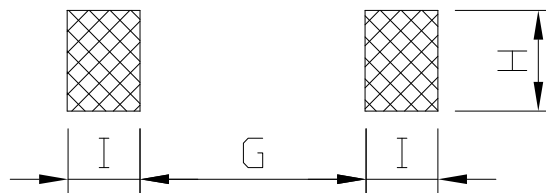
UNIT : mm



A=12.3 Max. B=12.3 Max. D=8.0 Max.

### RECOMMENDED PATTERNS

UNIT : mm



G=7.0 H=5.4 I=2.9



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### SPECIFICATION TABLE

(AEC-Q200)

| PART NUMBER      | INDUCTANCE<br>( $\mu$ H) | DCR ( $\Omega$ )<br>(max) | IDC (A)<br>(max) | TEST FREQ.<br>( freq. ) |
|------------------|--------------------------|---------------------------|------------------|-------------------------|
| SDS127LD-1R0N-LF | 1.0 $\pm$ 30%            | 0.0065                    | 14.0             | 100KHz                  |
| SDS127LD-2R4N-LF | 2.4 $\pm$ 30%            | 0.0105                    | 10.3             | 100KHz                  |
| SDS127LD-3R5N-LF | 3.5 $\pm$ 30%            | 0.0124                    | 9.30             | 100KHz                  |
| SDS127LD-4R6N-LF | 4.6 $\pm$ 30%            | 0.0138                    | 9.10             | 100KHz                  |
| SDS127LD-5R8N-LF | 5.8 $\pm$ 30%            | 0.0162                    | 8.60             | 100KHz                  |
| SDS127LD-7R4N-LF | 7.4 $\pm$ 30%            | 0.0177                    | 7.40             | 100KHz                  |
| SDS127LD-100M-LF | 10 $\pm$ 20%             | 0.0195                    | 6.70             | 1KHz                    |
| SDS127LD-120M-LF | 12 $\pm$ 20%             | 0.0213                    | 6.45             | 1KHz                    |
| SDS127LD-150M-LF | 15 $\pm$ 20%             | 0.0264                    | 5.65             | 1KHz                    |
| SDS127LD-180M-LF | 18 $\pm$ 20%             | 0.0280                    | 5.10             | 1KHz                    |
| SDS127LD-220M-LF | 22 $\pm$ 20%             | 0.0364                    | 4.70             | 1KHz                    |
| SDS127LD-270M-LF | 27 $\pm$ 20%             | 0.0416                    | 4.20             | 1KHz                    |
| SDS127LD-330M-LF | 33 $\pm$ 20%             | 0.0533                    | 3.90             | 1KHz                    |
| SDS127LD-390M-LF | 39 $\pm$ 20%             | 0.0605                    | 3.50             | 1KHz                    |
| SDS127LD-470M-LF | 47 $\pm$ 20%             | 0.0780                    | 3.25             | 1KHz                    |
| SDS127LD-560M-LF | 56 $\pm$ 20%             | 0.0900                    | 2.90             | 1KHz                    |
| SDS127LD-680M-LF | 68 $\pm$ 20%             | 0.1200                    | 2.60             | 1KHz                    |
| SDS127LD-820M-LF | 82 $\pm$ 20%             | 0.1190                    | 2.40             | 1KHz                    |
| SDS127LD-101M-LF | 100 $\pm$ 20%            | 0.1510                    | 2.10             | 1KHz                    |
| SDS127LD-121M-LF | 120 $\pm$ 20%            | 0.1690                    | 1.90             | 1KHz                    |
| SDS127LD-151M-LF | 150 $\pm$ 20%            | 0.2270                    | 1.80             | 1KHz                    |
| SDS127LD-181M-LF | 180 $\pm$ 20%            | 0.2990                    | 1.55             | 1KHz                    |
| SDS127LD-221M-LF | 220 $\pm$ 20%            | 0.3380                    | 1.45             | 1KHz                    |
| SDS127LD-271M-LF | 270 $\pm$ 20%            | 0.4190                    | 1.30             | 1KHz                    |
| SDS127LD-331M-LF | 330 $\pm$ 20%            | 0.4710                    | 1.20             | 1KHz                    |

● Operating temperature range -40°C to +125°C. ( Electrical specifications at 25°C )

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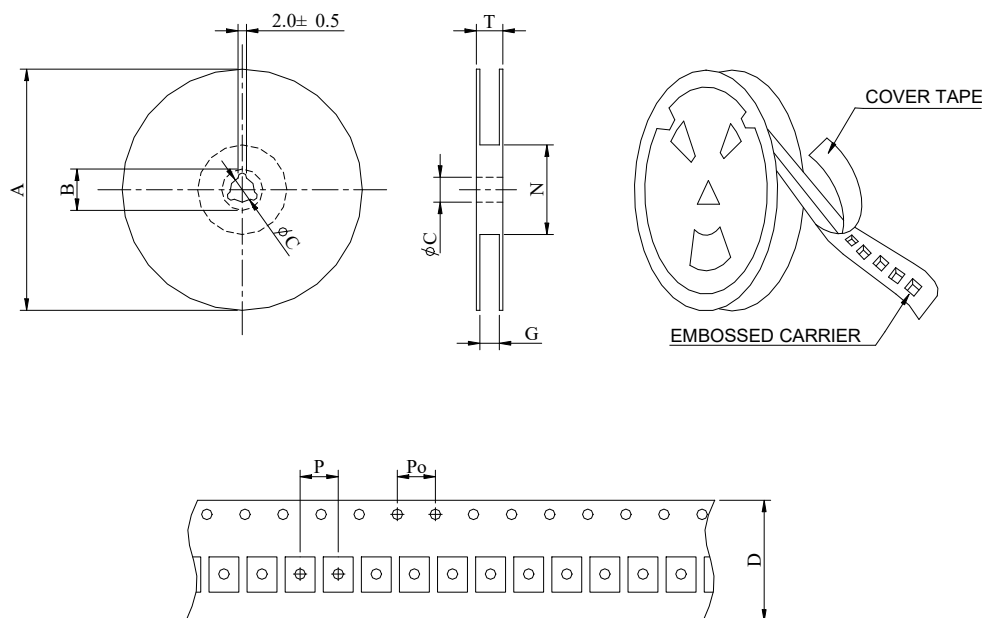


| PART NUMBER      | INDUCTANCE<br>( $\mu$ H) | DCR ( $\Omega$ )<br>(max) | IDC (A)<br>(max) | TEST FREQ.<br>( freq. ) |
|------------------|--------------------------|---------------------------|------------------|-------------------------|
| SDS127LD-391M-LF | 390 $\pm$ 20%            | 0.5720                    | 1.10             | 1KHz                    |
| SDS127LD-471M-LF | 470 $\pm$ 20%            | 0.7410                    | 1.00             | 1KHz                    |
| SDS127LD-561M-LF | 560 $\pm$ 20%            | 0.8520                    | 0.95             | 1KHz                    |
| SDS127LD-681M-LF | 680 $\pm$ 20%            | 1.1300                    | 0.85             | 1KHz                    |
| SDS127LD-821M-LF | 820 $\pm$ 20%            | 1.2400                    | 0.75             | 1KHz                    |
| SDS127LD-102M-LF | 1000 $\pm$ 20%           | 1.5000                    | 0.70             | 1KHz                    |

- Operating temperature range -40°C to +125°C. ( Electrical specifications at 25°C )

### PACKAGING SPECIFICATION

(AEC-Q200)



| SERIES   | STAYLE | Q'TY (PCS) | DIMENSIONS (m/m) |             |             |    |                |                |    |    |      |
|----------|--------|------------|------------------|-------------|-------------|----|----------------|----------------|----|----|------|
|          |        |            | A                | B $\pm$ 0.8 | C $\pm$ 0.5 | D  | G <sup>+</sup> | N <sup>0</sup> | P  | Po | T    |
| SDS127LD | 13-24  | 400        | 330              | 21          | 13          | 24 | 26             | 50             | 16 | 4  | 30.4 |