



SDS127LD SERIES ~ Shielded Power Inductors



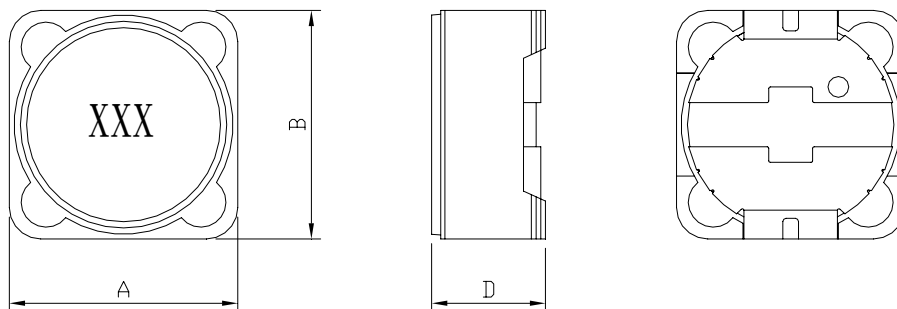
RoHS Compliant

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

| | | | | | |
|------------|------------------|---|----------------|---|-----------|
| <u>SDS</u> | <u>1 2 7 L D</u> | — | <u>1 0 0 M</u> | — | <u>LF</u> |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

SHAPES AND DIMENSIONS

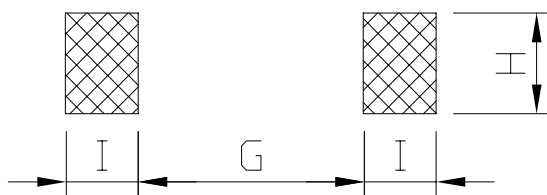
UNIT : mm



A=12.5 Max. B=12.5 Max. D=8.0 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=7.0 H=5.4 I=2.9



Coilmaster Electronics Co., Ltd.

9F-3 No.398, Huan Bei Rd. Chung Li City, Taoyuan 320, Taiwan
Tel : +886-3-422-8279 Fax : +886-3-422-8734

E-mail : info@coilmaster.com.tw

Web Site : www.coilmaster.com.tw



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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | DCR (Ω) (max) | IDC (A) (max) | TEST FREQ. (f) |
|------------------|--------------------------|---------------------------|------------------|-------------------|
| 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 |
| 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 |



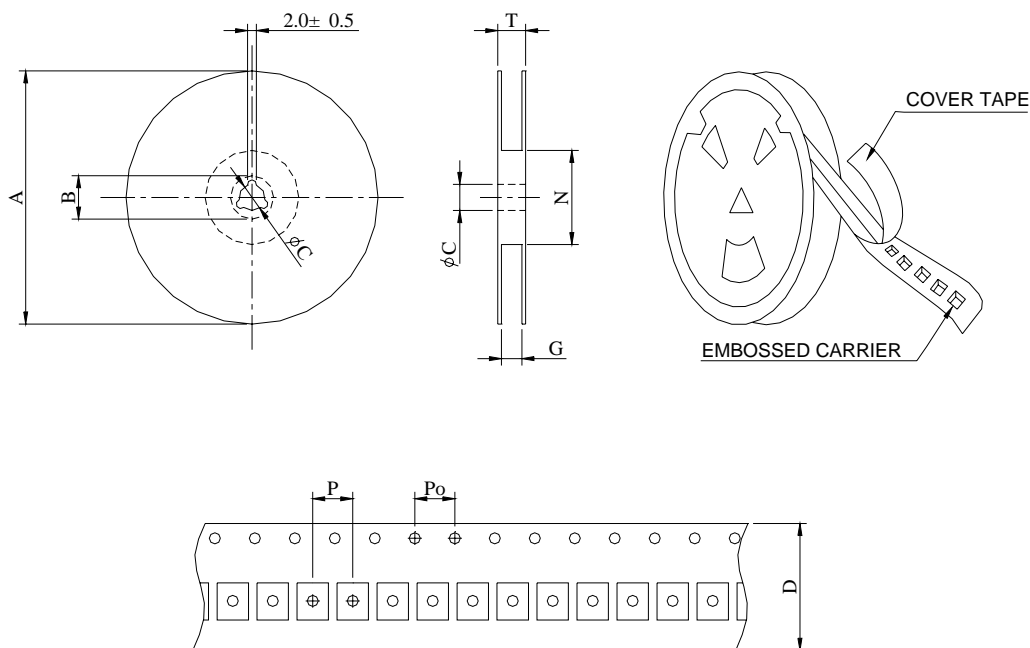
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PACKAGING SPECIFICATION



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