



SDS127H SERIES ~

SMD Shielded Power Inductors



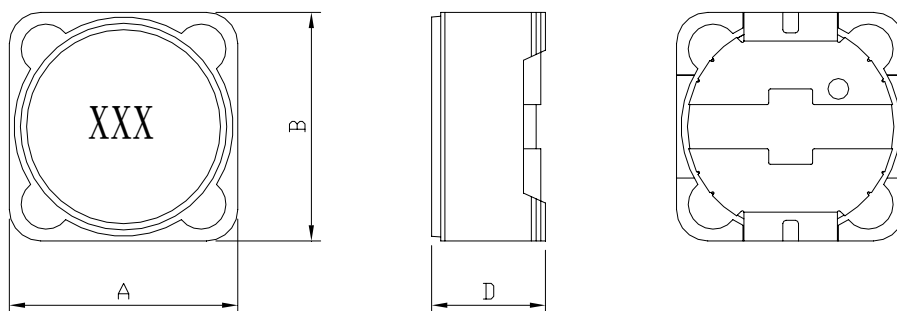
RoHS Compliant

PART NUMBERING SYSTEM

| | | | | | |
|------------|----------------|---|----------------|---|-----------|
| SDS | 1 2 7 H | — | 6 8 0 M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

SHAPES AND DIMENSIONS

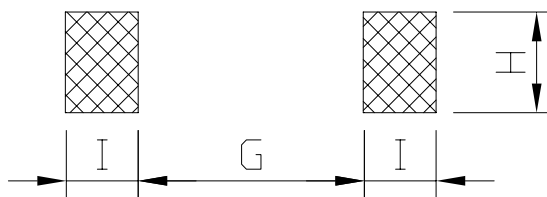
UNIT : mm



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



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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) (Max.) | Isat (A) (Max.) | Irms (A) (Max.) | TEST FREQ. (f) |
|-----------------|--------------------------|-----------------------------|--------------------|--------------------|-------------------|
| SDS127H-R47M-LF | 0.47 \pm 20% | 2.438 | 56.0 | 17.9 | 100KHz |
| SDS127H-1R0M-LF | 1.00 \pm 20% | 3.913 | 40.0 | 15.5 | 100KHz |
| SDS127H-1R5M-LF | 1.50 \pm 20% | 4.263 | 31.1 | 13.5 | 100KHz |
| SDS127H-2R2M-LF | 2.20 \pm 20% | 5.025 | 25.5 | 12.5 | 100KHz |
| SDS127H-3R3M-LF | 3.30 \pm 20% | 7.088 | 21.5 | 10.5 | 100KHz |
| SDS127H-4R7M-LF | 4.70 \pm 20% | 11.463 | 16.5 | 8.25 | 100KHz |
| SDS127H-6R8M-LF | 6.80 \pm 20% | 14.500 | 13.3 | 7.34 | 100KHz |
| SDS127H-8R2M-LF | 8.20 \pm 20% | 19.625 | 12.2 | 6.32 | 100KHz |
| SDS127H-100M-LF | 10.0 \pm 20% | 21.500 | 11.2 | 6.04 | 100KHz |
| SDS127H-150M-LF | 15.0 \pm 20% | 30.875 | 9.66 | 5.03 | 100KHz |
| SDS127H-220M-LF | 22.0 \pm 20% | 48.875 | 7.57 | 4.00 | 100KHz |
| SDS127H-330M-LF | 33.0 \pm 20% | 75.00 | 6.22 | 3.23 | 100KHz |
| SDS127H-470M-LF | 47.0 \pm 20% | 89.88 | 5.28 | 2.95 | 100KHz |
| SDS127H-680M-LF | 68.0 \pm 20% | 131.25 | 4.44 | 2.44 | 100KHz |
| SDS127H-820M-LF | 82.0 \pm 20% | 178.75 | 4.06 | 2.09 | 100KHz |
| SDS127H-101M-LF | 100 \pm 20% | 203.75 | 3.64 | 1.96 | 100KHz |
| SDS127H-151M-LF | 150 \pm 20% | 308.75 | 3.01 | 1.59 | 100KHz |
| SDS127H-221M-LF | 220 \pm 20% | 470.00 | 2.43 | 1.29 | 100KHz |
| SDS127H-331M-LF | 330 \pm 20% | 717.50 | 2.01 | 1.04 | 100KHz |
| SDS127H-471M-LF | 470 \pm 20% | 1076.25 | 1.68 | 0.85 | 100KHz |
| SDS127H-681M-LF | 680 \pm 20% | 1350.0 | 1.39 | 0.76 | 100KHz |
| SDS127H-821M-LF | 820 \pm 20% | 1837.5 | 1.27 | 0.65 | 100KHz |
| SDS127H-102M-LF | 1000 \pm 20% | 2075.0 | 1.14 | 0.61 | 100KHz |

- DC current at which the inductance drops 30% (typ) from its value without current.
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 20°C .



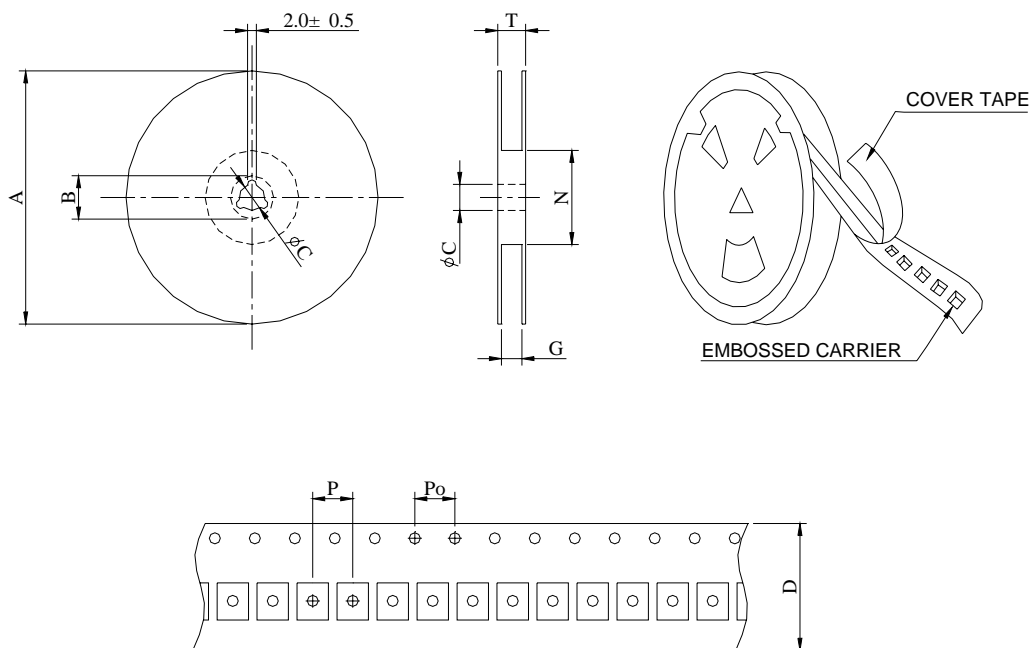
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PACKAGING SPECIFICATION



| SERIES | STAYLE | Q' TY (PCS) | DIMENSIONS (m/m) | | | | | | | | |
|---------|--------|----------------|------------------|-------|-------|----|-----------------|----------------|----|----|------|
| | | | A | B±0.8 | C±0.5 | D | G ⁺⁰ | N ⁰ | P | Po | T |
| SDS127H | 13-24 | 400 | 330 | 21 | 13 | 24 | 26 | 50 | 16 | 4 | 30.4 |