



SDS4218E SERIES ~ **New Products**



RoHS Compliant

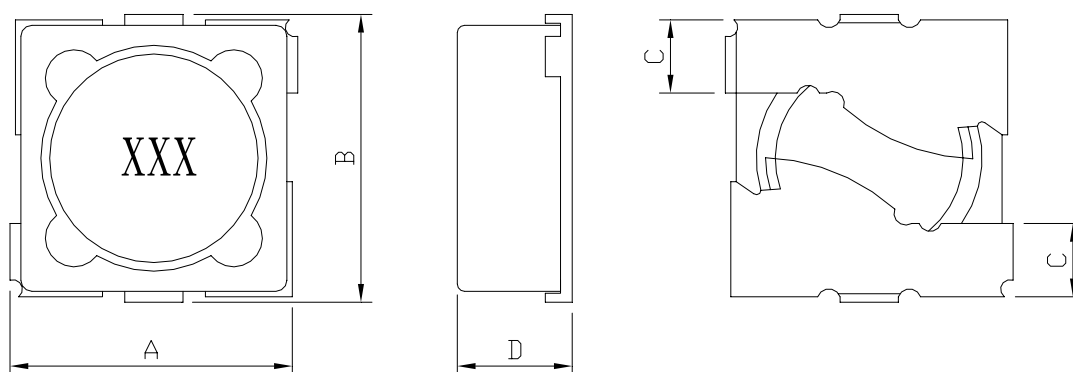
Low Profile Shielded Power Inductors

PART NUMBERING SYSTEM

| | | | | | |
|------------|--------------|---|-------------|---|-----------|
| SDS | 4218E | — | 100M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

SHAPES AND DIMENSIONS

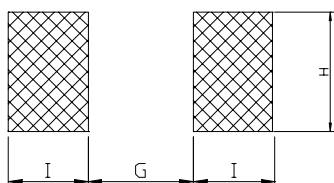
UNIT : mm



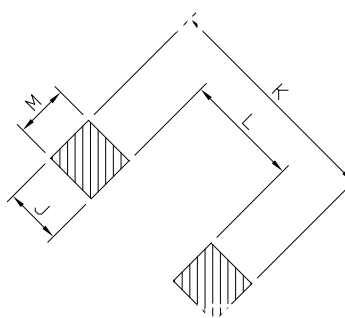
A=4.4 Max. B=4.4 Max. C=1.2 Typ. D=1.80 Max

RECOMMENDED PATTERNS

UNIT : mm



G=1.4 H=4.6 I=1.6



J=1.4 K=5.20 L=2.4 M=1.5

FEATURES

- **Compact, Low profile shielded power inductor** – only **1,8 mm** high, **4.4 mm** square
- Ideal for **high-density applications**
- **Flat bottom surface ensure secure , reliable mounting .**
- Handles **current up to 3.5 Amps!**
- **RoHS-compliant.** 260°C compatible.



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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | DCR (Ω) (Max.) | Isat (A) | Irms (A) @ 25°C Rise | TEST FREQ. (f) |
|-------------------|--------------------------|----------------------------|----------|-------------------------|-------------------|
| SDS4218E-1R0N-LF | 1.0 \pm 30% | 0.046 | 3.20 | 2.40 | 1KHz/1V |
| SDS4218E -1R2N-LF | 1.2 \pm 30% | 0.053 | 3.00 | 2.20 | 1KHz/1V |
| SDS4218E -1R5N-LF | 1.5 \pm 30% | 0.060 | 2.70 | 2.20 | 1KHz/1V |
| SDS4218E -1R8N-LF | 1.8 \pm 30% | 0.070 | 2.40 | 2.00 | 1KHz/1V |
| SDS4218E -2R2N-LF | 2.2 \pm 30% | 0.075 | 2.20 | 1.90 | 1KHz/1V |
| SDS4218E -2R7N-LF | 2.7 \pm 30% | 0.082 | 2.10 | 1.80 | 1KHz/1V |
| SDS4218E -3R3N-LF | 3.3 \pm 30% | 0.096 | 1.88 | 1.65 | 1KHz/1V |
| SDS4218E-3R9N-LF | 3.9 \pm 30% | 0.101 | 1.80 | 1.56 | 1KHz/1V |
| SDS4218E-4R7N-LF | 4.7 \pm 30% | 0.119 | 1.46 | 1.45 | 1KHz/1V |
| SDS4218E-5R6N-LF | 5.6 \pm 30% | 0.132 | 1.48 | 1.30 | 1KHz/1V |
| SDS4218E-6R8N-LF | 6.8 \pm 30% | 0.154 | 1.26 | 1.20 | 1KHz/1V |
| SDS4218E-8R2N-LF | 8.2 \pm 30% | 0.175 | 1.24 | 1.15 | 1KHz/1V |
| SDS4218E-100M-LF | 10 \pm 20% | 0.198 | 1.10 | 1.05 | 1KHz/1V |
| SDS4218E-120M-LF | 12 \pm 20% | 0.305 | 1.00 | 0.80 | 1KHz/1V |
| SDS4218E-150M-LF | 15 \pm 20% | 0.384 | 0.88 | 0.72 | 1KHz/1V |
| SDS4218E-180M-LF | 18 \pm 20% | 0.432 | 0.84 | 0.68 | 1KHz/1V |
| SDS4218E-220M-LF | 22 \pm 20% | 0.502 | 0.74 | 0.65 | 1KHz/1V |
| SDS4218E-270M-LF | 27 \pm 20% | 0.540 | 0.70 | 0.60 | 1KHz/1V |
| SDS4218E-330M-LF | 33 \pm 20% | 0.744 | 0.58 | 0.58 | 1KHz/1V |
| SDS4218E-390M-LF | 39 \pm 20% | 0.780 | 0.56 | 0.48 | 1KHz/1V |
| SDS4218E-470M-LF | 47 \pm 20% | 0.948 | 0.52 | 0.45 | 1KHz/1V |
| SDS4218E-560M-LF | 56 \pm 20% | 1.035 | 0.48 | 0.40 | 1KHz/1V |
| SDS4218E-680M-LF | 68 \pm 20% | 1.170 | 0.40 | 0.36 | 1KHz/1V |

- Inductance tested at 1kHz, 1 Vrms, 0 Adc using an Agilent/HP 4284A LCR meter or equivalent.
- Isat : DC current at which the inductance drops 35% (typ) from its value without current.
- Irms: Current that causes the specified temperature rise from 25°C ambient.
- Electrical specifications at 25°C.
- Packing Qty 1,000pcs with 7' reel (178mm)