

Low Profile Shielded Power Inductors - SDS4018E SERIES

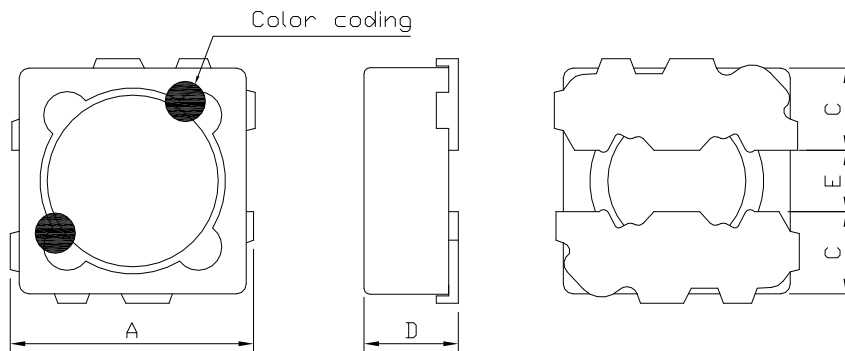


PART NUMBERING SYSTEM

| | | | | | |
|------------|--------------|---|-------------|---|-----------|
| SDS | 4218E | — | 6R8N | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

SHAPES AND DIMENSIONS

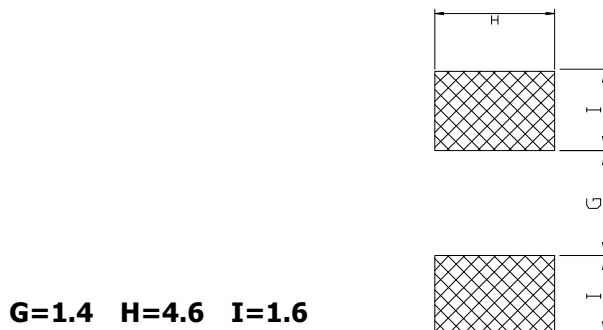
UNIT : mm



A=4.4 Max. B=4.4 Max. C=1.3 Typ. D=1.80 Max

RECOMMENDED PATTERNS

UNIT : mm



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 3.2 Amps!
- RoHS-compliant. 260°C compatible.



Low Profile Shielded Power Inductors - SDS4018E SERIES

SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | DCR (Ω) (Typ.) | Isat (A) (Max.) | Irms (A) @ 25°C Rise | TEST FREQ. (Freq.) |
|-------------------|-----------------------|-------------------------|-----------------|----------------------|--------------------|
| SDS4218E-1R0N-LF | 1.0±30% | 0.038 | 3.20 | 2.40 | 1KHz/1V |
| SDS4218E -1R2N-LF | 1.2±30% | 0.044 | 3.00 | 2.20 | 1KHz/1V |
| SDS4218E -1R5N-LF | 1.5±30% | 0.050 | 2.70 | 2.20 | 1KHz/1V |
| SDS4218E -1R8N-LF | 1.8±30% | 0.058 | 2.40 | 2.00 | 1KHz/1V |
| SDS4218E -2R2N-LF | 2.2±30% | 0.062 | 2.20 | 1.90 | 1KHz/1V |
| SDS4218E -2R7N-LF | 2.7±30% | 0.068 | 2.10 | 1.80 | 1KHz/1V |
| SDS4218E -3R3N-LF | 3.3±30% | 0.080 | 1.88 | 1.65 | 1KHz/1V |
| SDS4218E-3R9N-LF | 3.9±30% | 0.084 | 1.80 | 1.56 | 1KHz/1V |
| SDS4218E-4R7N-LF | 4.7±30% | 0.099 | 1.46 | 1.45 | 1KHz/1V |
| SDS4218E-5R6N-LF | 5.6±30% | 0.110 | 1.48 | 1.30 | 1KHz/1V |
| SDS4218E-6R8N-LF | 6.8±30% | 0.128 | 1.26 | 1.20 | 1KHz/1V |
| SDS4218E-8R2N-LF | 8.2±30% | 0.146 | 1.24 | 1.15 | 1KHz/1V |
| SDS4218E-100M-LF | 10±20% | 0.165 | 1.10 | 1.05 | 1KHz/1V |
| SDS4218E-120M-LF | 12±20% | 0.254 | 1.00 | 0.80 | 1KHz/1V |
| SDS4218E-150M-LF | 15±20% | 0.320 | 0.88 | 0.72 | 1KHz/1V |
| SDS4218E-180M-LF | 18±20% | 0.360 | 0.84 | 0.68 | 1KHz/1V |
| SDS4218E-220M-LF | 22±20% | 0.418 | 0.74 | 0.65 | 1KHz/1V |
| SDS4218E-270M-LF | 27±20% | 0.450 | 0.70 | 0.60 | 1KHz/1V |
| SDS4218E-330M-LF | 33±20% | 0.620 | 0.58 | 0.58 | 1KHz/1V |
| SDS4218E-390M-LF | 39±20% | 0.650 | 0.56 | 0.48 | 1KHz/1V |
| SDS4218E-470M-LF | 47±20% | 0.790 | 0.52 | 0.45 | 1KHz/1V |
| SDS4218E-560M-LF | 56±20% | 0.862 | 0.48 | 0.40 | 1KHz/1V |
| SDS4218E-680M-LF | 68±20% | 0.975 | 0.40 | 0.36 | 1KHz/1V |
| SDS4218E-101M-LF | 100±20% | 1.380 | 0.32 | 0.36 | 1KHz/1V |
| SDS4218E-151M-LF | 150±20% | 2.410 | 0.24 | 0.32 | 1KHz/1V |
| SDS4218E-221M-LF | 220±20% | 3.900 | 0.23 | 0.29 | 1KHz/1V |
| SDS4218E-331M-LF | 330±20% | 5.710 | 0.18 | 0.24 | 1KHz/1V |
| SDS4218E-471M-LF | 470±20% | 8.420 | 0.15 | 0.19 | 1KHz/1V |
| SDS4218E-681M-LF | 680±20% | 10.30 | 0.13 | 0.16 | 1KHz/1V |
| SDS4218E-102M-LF | 1000±20% | 15.20 | 0.10 | 0.13 | 1KHz/1V |
| SDS4218E-152M-LF | 1500±20% | 25.00 | 0.09 | 0.10 | 1KHz/1V |

- Isat : DC current at which the inductance drops 35% (typ) from its value without current.
- Iirms: Current that causes the specified temperature rise from 25°C ambient.