



Low Profile Shielded SMD Power Inductors ~ SDS3018EHP

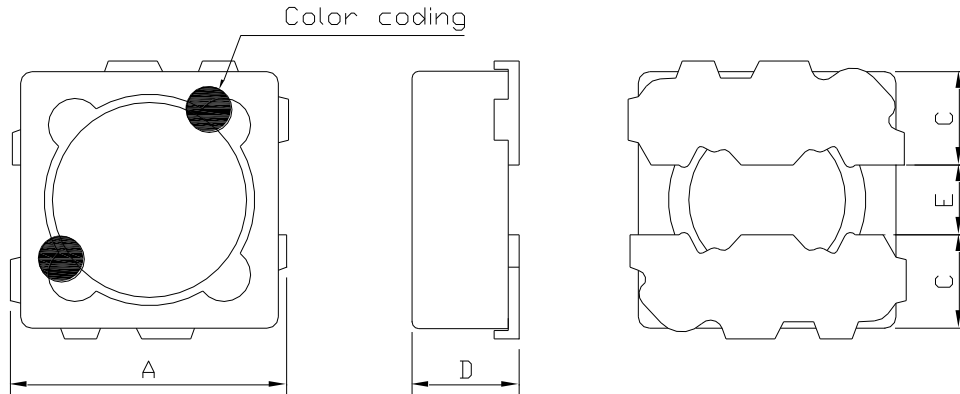


PART NUMBERING SYSTEM

| | | | | | |
|------------|----------------|---|-------------|---|-----------|
| SDS | 3018EHP | — | 220M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

SHAPES AND DIMENSIONS

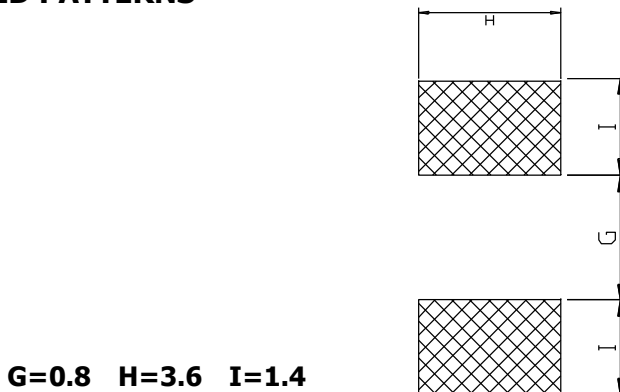
UNIT : mm



A=3.4 Max. B=3.4 Max. C=1.1 Typ. D=1.80 Max. E=0.8 Ref.

RECOMMENDED PATTERNS

UNIT : mm



G=0.8 H=3.6 I=1.4

FEATURES

- Compact, Low profile shielded power inductor – only 1,8 mm high, 3.2 mm square
- Ideal for high-density applications
- Flat bottom surface ensure secure, reliable mounting.
- Handles current up to 3 Amps!
- RoHS-compliant. 260°C compatible.
- Automotive grade available



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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | TOLERANCE | DCR (Ω) (Typ.) | Isat (A) | Irms (A) @ 25°C Rise | TEST FREQ. (f) |
|--------------------|--------------------------|-----------|----------------------------|------------|------------------------------|---------------------|
| SDS3018EHP-1R0□-LF | 1.0 | M,N | 0.045 | 3.00 | 2.00 | 1KHz/1V |
| SDS3018EHP-1R5□-LF | 1.5 | M,N | 0.070 | 2.40 | 1.90 | 1KHz/1V |
| SDS3018EHP-1R8□-LF | 1.8 | M,N | 0.078 | 2.30 | 1.76 | 1KHz/1V |
| SDS3018EHP-2R2□-LF | 2.2 | M,N | 0.090 | 2.14 | 1.44 | 1KHz/1V |
| SDS3018EHP-3R3□-LF | 3.3 | M,N | 0.103 | 1.80 | 1.10 | 1KHz/1V |
| SDS3018EHP-3R9□-LF | 3.9 | M,N | 0.135 | 1.78 | 1.05 | 1KHz/1V |
| SDS3018EHP-4R7□-LF | 4.7 | M,N | 0.152 | 1.60 | 1.00 | 1KHz/1V |
| SDS3018EHP-6R8□-LF | 6.8 | M,N | 0.223 | 1.40 | 0.95 | 1KHz/1V |
| SDS3018EHP-100□-LF | 10 | M,N | 0.360 | 1.02 | 0.78 | 1KHz/1V |
| SDS3018EHP-120□-LF | 12 | M,N | 0.410 | 0.98 | 0.68 | 1KHz/1V |
| SDS3018EHP-150□-LF | 15 | M,N | 0.622 | 0.90 | 0.62 | 1KHz/1V |
| SDS3018EHP-220□-LF | 22 | M,N | 0.750 | 0.74 | 0.45 | 1KHz/1V |
| SDS3018EHP-330□-LF | 33 | M,N | 1.125 | 0.52 | 0.42 | 1KHz/1V |
| SDS3018EHP-470□-LF | 47 | M,N | 1.820 | 0.43 | 0.40 | 1KHz/1V |
| SDS3018EHP-680□-LF | 68 | M,N | 2.650 | 0.39 | 0.34 | 1KHz/1V |
| SDS3018EHP-101□-LF | 100 | M,N | 3.200 | 0.33 | 0.30 | 1KHz/1V |
| SDS3018EHP-221□-LF | 220 | M,N | 10.45 | 0.20 | 0.18 | 1KHz/1V |
| SDS3018EHP-331□-LF | 330 | M,N | 13.00 | 0.15 | 0.12 | 1KHz/1V |
| SDS3018EHP-471□-LF | 470 | M,N | 12.20 | 0.07 | 0.12 | 1KHz/1V |

- Inductors tolerance M=±20% ; N=±30%
- 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.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C .
- Packing Qty 1,000pcs with 7' reel (178mm)