

SDH1608X SERIES ~ SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

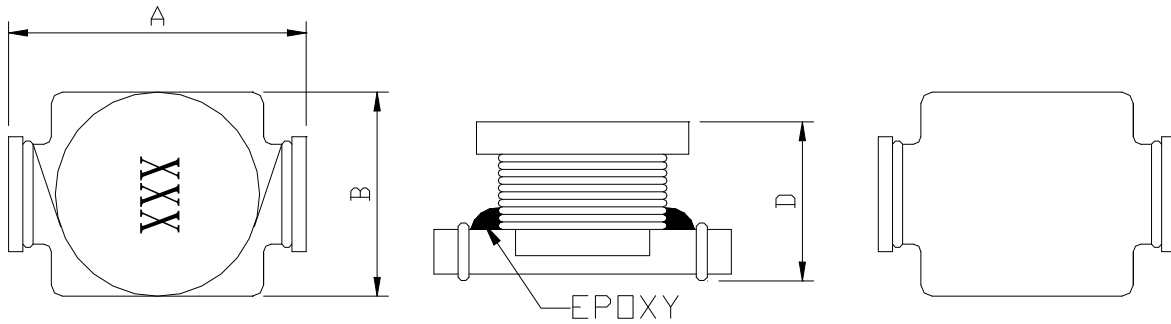
| | | | | | |
|------------|--------------|----------|-------------|----------|-----------|
| SDH | 1608X | — | 1R0M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

FEATURES :

- Low profile (height 2.92 mm max.)
- Available lead free and RoHS compliant
- Low cost and high reliability

SHAPES AND DIMENSIONS

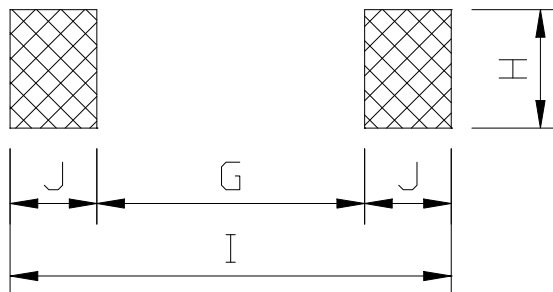
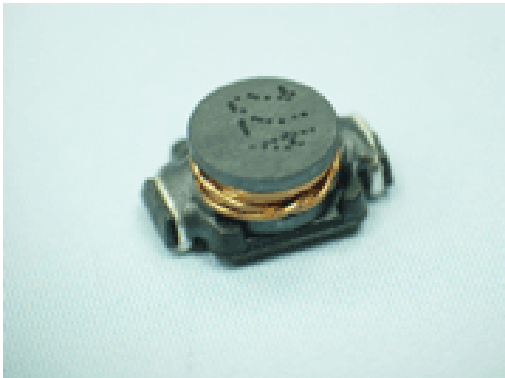
UNIT : mm



A = 6.6 Max. B = 4.45 Max. D = 2.92 Max.

RECOMMENDED PATTERNS

UNIT : mm



G = 4.06 H = 3.56 I = 6.86 J = 1.4

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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | DCR(Ω) (Max.) | Isat (A) (Max.) | Irms (A) (Max.) | SRF(MHz) (Ref.) |
|------------------|--------------------------|---------------------------|----------------------|----------------------|--------------------|
| SDH1608X-1R0M-LF | 1.0 \pm 20% | 0.05 | 2.90 | 2.90 | 130 |
| SDH1608X-1R5M-LF | 1.5 \pm 20% | 0.05 | 2.60 | 2.80 | 115 |
| SDH1608X-2R2M-LF | 2.2 \pm 20% | 0.07 | 2.30 | 2.40 | 90 |
| SDH1608X-2R7M-LF | 2.7 \pm 20% | 0.08 | 2.10 | 2.10 | 75 |
| SDH1608X-3R3M-LF | 3.3 \pm 20% | 0.08 | 2.00 | 2.00 | 70 |
| SDH1608X-4R7M-LF | 4.7 \pm 20% | 0.09 | 1.50 | 1.50 | 50 |
| SDH1608X-6R8M-LF | 6.8 \pm 20% | 0.13 | 1.20 | 1.40 | 45 |
| SDH1608X-8R2M-LF | 8.2 \pm 20% | 0.16 | 1.15 | 1.30 | 40 |
| SDH1608X-100M-LF | 10 \pm 20% | 0.16 | 1.10 | 1.20 | 35 |
| SDH1608X-150M-LF | 15 \pm 20% | 0.23 | 0.90 | 1.10 | 30 |
| SDH1608X-220M-LF | 22 \pm 20% | 0.37 | 0.70 | 0.80 | 20 |
| SDH1608X-330M-LF | 33 \pm 20% | 0.51 | 0.58 | 0.60 | 15 |
| SDH1608X-470M-LF | 47 \pm 20% | 0.64 | 0.50 | 0.50 | 14 |
| SDH1608X-680M-LF | 68 \pm 20% | 0.86 | 0.40 | 0.40 | 11 |
| SDH1608X-101M-LF | 100 \pm 20% | 1.27 | 0.31 | 0.30 | 9 |
| SDH1608X-151M-LF | 150 \pm 20% | 2.00 | 0.27 | 0.25 | 6 |
| SDH1608X-221M-LF | 220 \pm 20% | 2.65 | 0.22 | 0.20 | 5.5 |
| SDH1608X-331M-LF | 330 \pm 20% | 3.80 | 0.18 | 0.16 | 5 |
| SDH1608X-471M-LF | 470 \pm 20% | 5.06 | 0.16 | 0.15 | 4 |
| SDH1608X-681M-LF | 680 \pm 20% | 9.20 | 0.14 | 0.12 | 3 |
| SDH1608X-102M-LF | 1000 \pm 20% | 13.80 | 0.10 | 0.07 | 2 |

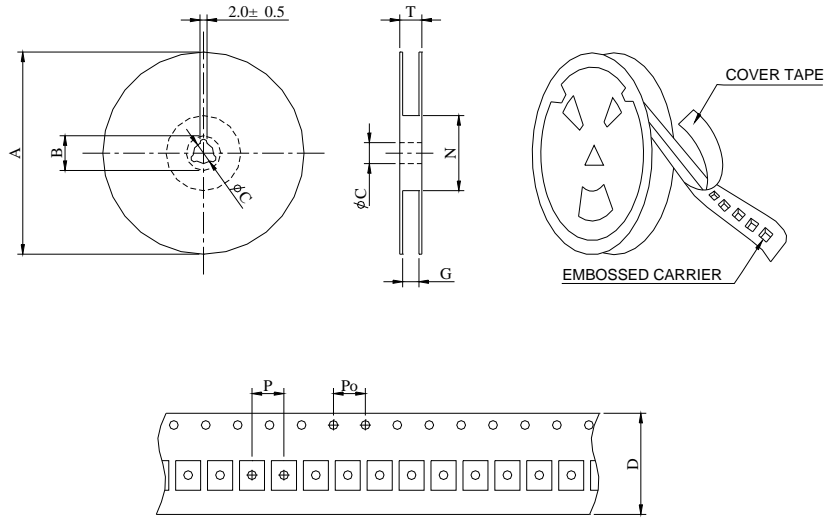
1. Test Frequency ; Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
2. Inductance is measured with a LCR meter 4284A or equivalent.
3. Inductance drop=10% typ. at rated current.
4. Operating temperature range -40°C to +125°C
5. Electrical specifications at 25°C

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PACKAGING SPECIFICATION

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| SERIES | STAYLE | Q' TY (PCS) | DIMENSIONS (m/m) | | | | | | | | |
|----------|--------|----------------|------------------|-------|-------|----|-----------------|----------------|---|----|------|
| | | | A | B±0.8 | C±0.5 | D | G ⁺⁰ | N ⁰ | P | Po | T |
| SDS1608X | 13-16 | 2000 | 330 | 21 | 13 | 16 | 18 | 50 | 8 | 4 | 22.4 |