




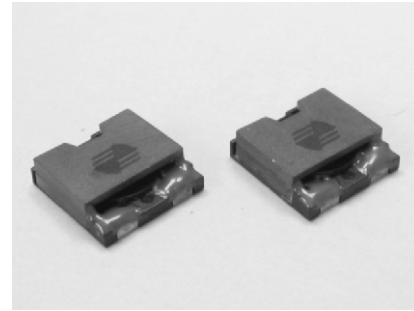


-  Magnetically Shielded
-  High energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

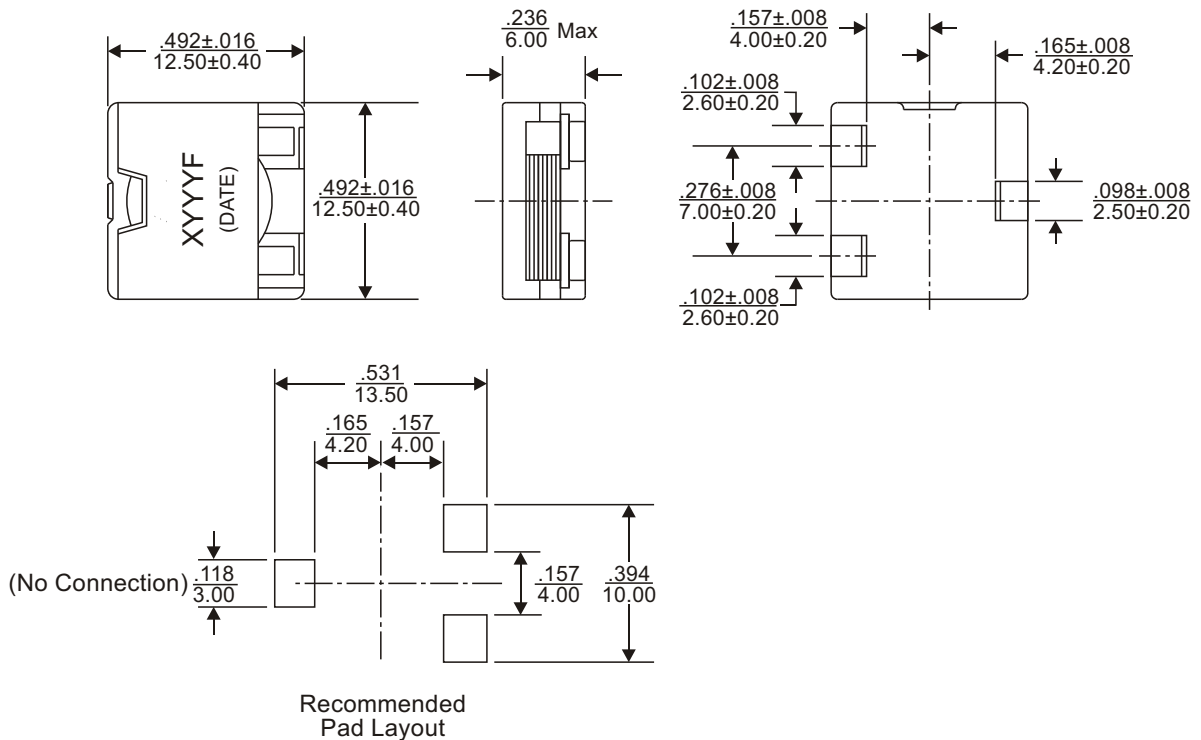
| Part Number | Inductance ³ (uH) | Inductance Tolerance ² (%) | | Inductance ⁶ @ Irated (uH) Typ | Irated ⁷ Current (A) | DCR (m Max) | Saturation ⁴ Current (A) | Heating ⁵ Current (A) | Marking (YYYY) | |
|---------------|---------------------------------|--|------|---|---------------------------------------|----------------|---|--|-------------------|--------|
| | | L | M | | | | | | L:±15% | M:±20% |
| SIS1206X-0R2F | 0.2 | ±15% | ±20% | 0.18 | 25 | 1.0 | 30 | 25 | L0R2 | M0R2 |
| SIS1206X-0R3F | 0.33 | ±15% | ±20% | 0.32 | 25 | 0.8 | 38 | 25 | L0R3 | M0R3 |
| SIS1206X-0R6F | 0.6 | ±15% | ±20% | 0.51 | 25 | 0.8 | 23 | 25 | L0R6 | M0R6 |
| SIS1206X-1R0F | 1.0 | ±15% | ±20% | 0.89 | 15 | 1.75 | 20 | 15 | L1R0 | M1R0 |
| SIS1206X-2R1F | 2.1 | ±15% | ±20% | 1.89 | 12 | 3.6 | 15 | 12 | L2R1 | M2R1 |
| SIS1206X-3R1F | 3.1 | ±15% | ±20% | 2.81 | 9 | 7.5 | 12 | 9 | L3R1 | M3R1 |
| SIS1206X-4R2F | 4.2 | ±15% | ±20% | 3.82 | 8.5 | 7.5 | 10 | 8.5 | L4R2 | M4R2 |
| SIS1206X-4R6F | 4.6 | ±15% | ±20% | 4.18 | 8.0 | 10.4 | 9 | 8 | L4R6 | M4R6 |
| SIS1206X-5R5F | 5.5 | ±15% | ±20% | 5.18 | 7.5 | 12.4 | 8 | 7.5 | L5R5 | M5R5 |

Notes:

1. Ordering Information: SIS1206X - bbbFc.
 SIS1206 = Product Type.
 X = Tolerance of Inductance (L = ±15%; M = ±20%).
 bbb = Inductance value in uH (i.e. 0R6 = 0.6uH; 4R6 = 4.6uH).
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Add the tolerance code of inductance by replacing "X" of the part number by: L=±15% or M=±20%.
3. Inductance is tested at 0.25Vrms, 100kHz.
4. Saturation current, Isat, indicates the value of DC current when the inductance is 10% typical lower than its initial value.
5. Heating current, Irms, is the value of current when the temperature rising T=40°C typical.
6. Rated inductance is for reference only.
7. The rated current listed is the lower of the saturation current @25°C or the heating current.
8. Operating temperature range: -40°C to +130°C.
9. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



MECHANICAL DIMENSIONS

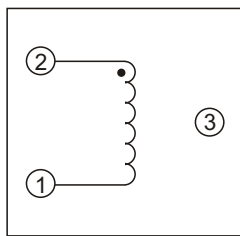


Notes:

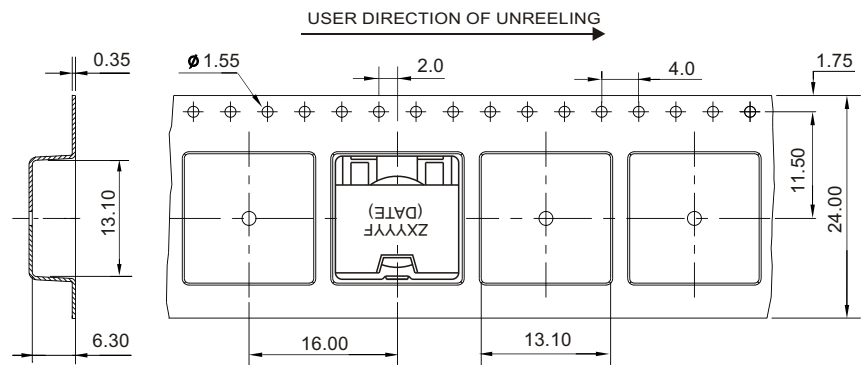
- 10. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 11. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

| | |
|------------------|--------------|
| Weight (in gram) | : 2.5 typ. |
| Tape & Reel | : 550 / reel |

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER

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