Elec & Eltek依利安達
E & E Magnetic Products Limited

SURFACE MOUNT HIGH CURRENT POWER INDUCTOR

Flat WireType, SIS1206 Series

- 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 versions are available

ELECTRICAL SPECIFICATION @ 25°C

Part Number	RoHS Part Number	Inductance [2] (uH)	Inductance Tolerance [1] (%)		Inductance [5] @ Irated (uH) Typ	Irated [6] Current (A)	DCR (mΩ Max)	Saturation [3] Current (A)	Heating [4] Current (A)	Marking (XYYY)	
			L	M						L:±15%	M:±20%
SIS1206X-0R2	SIS1206X-0R2F	0.2	±15%	±20%	0.18	25	1.0	30	25	L0R2	M0R2
SIS1206X-0R3	SIS1206X-0R3F	0.33	±15%	±20%	0.32	25	0.8	38	25	L0R3	M0R3
SIS1206X-0R6	SIS1206X-0R6F	0.6	±15%	±20%	0.51	25	0.8	23	25	L0R6	M0R6
SIS1206X-1R0	SIS1206X-1R0F	1.0	±15%	±20%	0.89	15	1.75	20	15	L1R0	M1R0
SIS1206X-2R1	SIS1206X-2R1F	2.1	±15%	±20%	1.89	12	3.6	15	12	L2R1	M2R1
SIS1206X-3R1	SIS1206X-3R1F	3.1	±15%	±20%	2.81	9	7.5	12	9	L3R1	M3R1
SIS1206X-4R2	SIS1206X-4R2F	4.2	±15%	±20%	3.82	8.5	7.5	10	8.5	L4R2	M4R2
SIS1206X-4R6	SIS1206X-4R6F	4.6	±15%	±20%	4.18	8.0	10.4	9	8	L4R6	M4R6
SIS1206X-5R5	SIS1206X-5R5F	5.5	±15%	±20%	5.18	7.5	12.4	8	7.5	L5R5	M5R5

Notes:

1. Add the tolerance code of inductance by replacing “X” of the part number by: L=±15% or M=±20%.
2. Inductance is tested at 0.25Vrms, 100kHz.
3. Saturation current, Isat, indicates the value of DC current when the inductance is 10% typical lower than its initial value.
4. Heating current, Irms, is the value of current when the temperature rising ΔT=40°C typical.
5. Rated inductance is for reference only.
6. The rated current listed is the lower of the saturation current @25ºC or the heating current.
7. Operating temperature range: -40ºC to +130ºC.
8. 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.
9. Contact EEMPL for RoHS compliant version availability.

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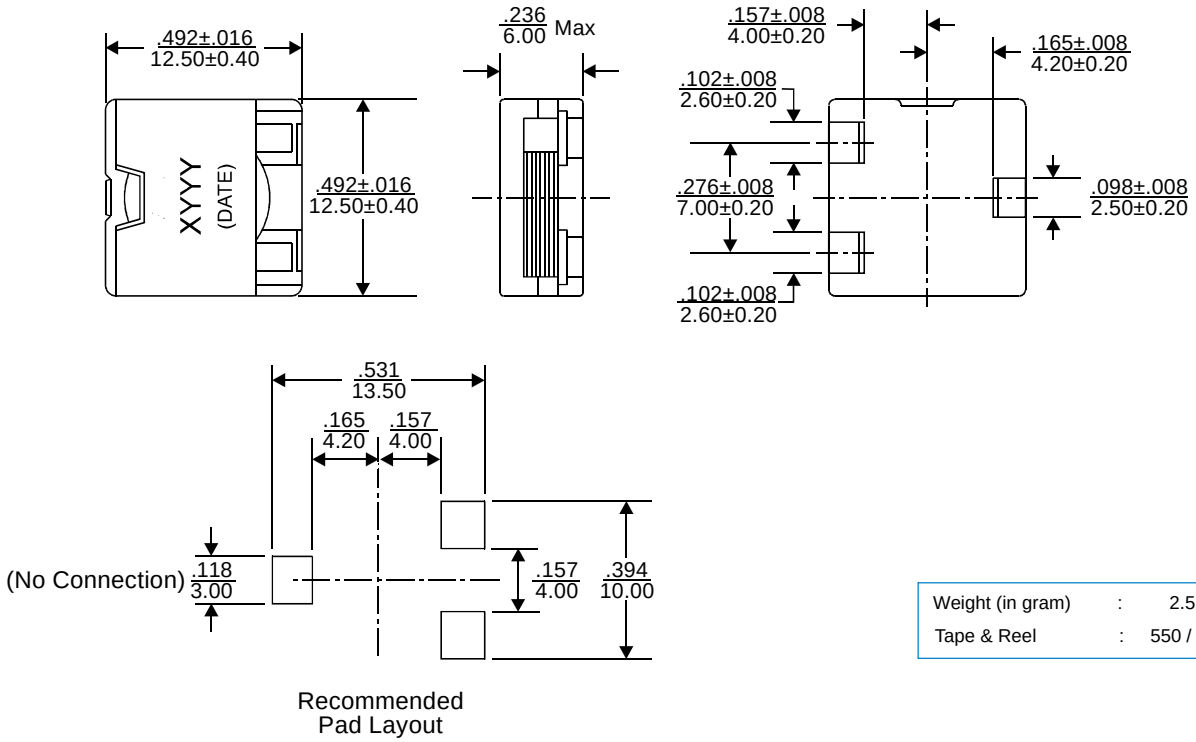
MECHANICAL DIMENSIONS



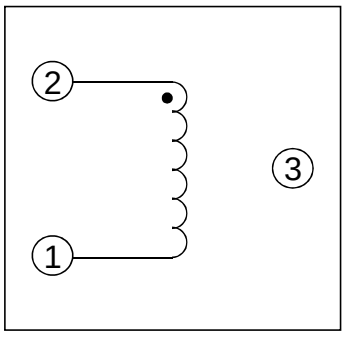
Recommended
Pad Layout

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

Notes:

10. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
11. Unless otherwise specified, all tolerances are $\pm\frac{.010}{0.25}$.
12. For available RoHS part number, the part will be marked with “XYYYF”, instead of “XYYY”.

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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