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

SURFACE MOUNT HIGH CURRENT POWER INDUCTOR

Flat WireType, SIS120Z 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[1] (uH ± 20%)	Inductance[4] @Irated (uH) Typ	Irated[5] Current (A)	DCR (mΩ Max)	Saturation[2] Current (A)	Heating[3] Current (A)	Marking (ZXYYY)
SIS1204M-0R3	SIS1204M-0R3F	0.3	0.26	17	1.7	22	17	4M0R3
SIS1204M-0R6	SIS1204M-0R6F	0.6	0.50	14	3.0	18	14	4M0R6
SIS1204M-1R0	SIS1204M-1R0F	1.0	0.89	11	4.5	15	11	4M1R0
SIS1204M-2R2	SIS1204M-2R2F	2.2	1.89	9	6.8	9	9	4M2R2
SIS1204M-3R3	SIS1204M-3R3F	3.3	2.89	8	11.2	8	8	4M3R3
SIS1204M-4R7	SIS1204M-4R7F	4.7	4.19	6	15.4	6	6	4M4R7
SIS1204M-5R5	SIS1204M-5R5F	5.5	4.90	5	15.4	5	5	4M5R5
SIS1205M-0R3	SIS1205M-0R3F	0.33	0.27	25	0.8	33.2	25	5M0R3
SIS1205M-0R6	SIS1205M-0R6F	0.60	0.53	23	1.75	28.3	23	5M0R6
SIS1205M-1R0	SIS1205M-1R0F	1.0	0.89	18	3.6	22.8	18	5M1R0
SIS1205M-2R2	SIS1205M-2R2F	2.2	1.86	14	7.5	15.5	14	5M2R2
SIS1205M-3R3	SIS1205M-3R3F	3.3	2.63	12	10.4	12.2	12	5M3R3
SIS1205M-4R7	SIS1205M-4R7F	4.7	3.95	9.3	12.4	10.2	9.3	5M4R7
SIS1205M-5R5	SIS1205M-5R5F	5.5	4.38	8.2	12.4	8.2	9.3	5M5R5

Notes:

1. Inductance is tested at 0.25Vrms, 100kHz.
2. Saturation current, Isat, indicates the value of DC current when the inductance is 10% typical (20% typical for SIS1205 series) lower than its initial value or the current when the temperature rising ΔT=40°C, whichever is lower.
3. Heating current, Irms, is the value of current when the temperature rising ΔT=40°C typical.
4. Rated inductance is for reference only.
5. The rated current listed is the lower of the saturation current @25ºC or the heating current.
6. Operating temperature range: -40ºC to +130ºC.
7. 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.
8. Contact EEMPL for RoHS compliant version availability.

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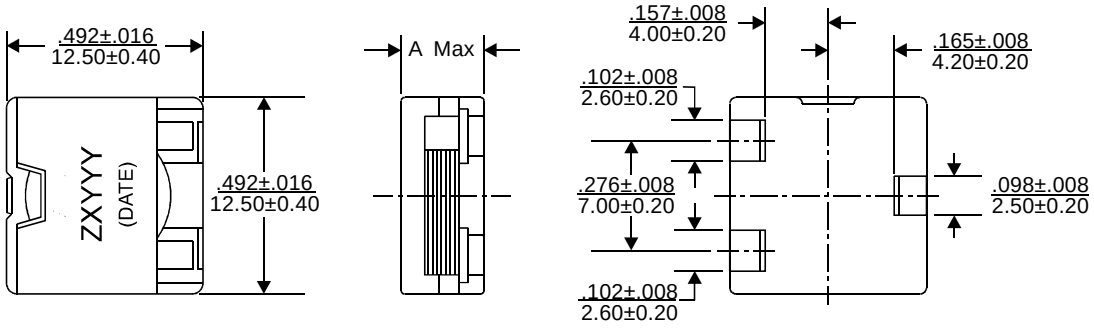
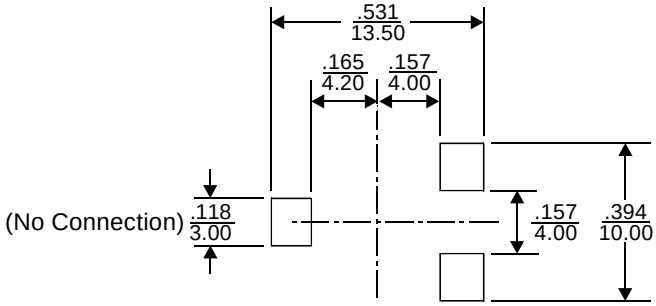
MECHANICAL DIMENSIONS





Recommended
Pad Layout

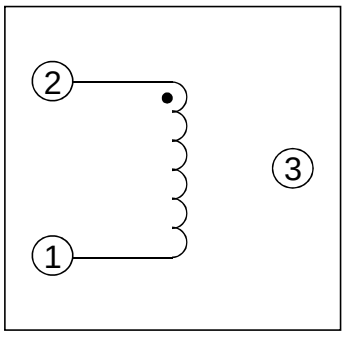
Size Code	SIS1204	SIS1205
A	.157 / 4.00	.197 / 5.00

	SIS1204	SIS1205
Weight (in gram.):	2.0 typ.	2.5 typ.
Tape & Reel:	850 / reel	700 / reel

Notes:

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

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER
2/F Block A, Merit Industrial Centre,
94 Tokwawan Road, Kowloon,
Hong Kong
Tel: (852) 2765 3888
Fax: (852) 2954 3304
Email: eempl@eleceltek.com
Website: http://www.eleceltek.com