






-  Magnetically Shielded
-  Miniature in size and 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 ² @ 0Adc (H)	Inductance Tolerance		Inductance @ Irated (H) Min.	Irated ³ (Adc)	DCR (m) Max.	Saturation Current ⁴ (A)	Heating Current ⁵ (A)	Marking (XYYY)
		M	N						
SISP1172N-132F	1.3	N/A	±30%	0.8	14	3.0	15	14	N132
SISP1172N-202F	2.0	N/A	±30%	1.3	10	6.0	13	10	N202
SISP1172N-272F	2.7	N/A	±30%	1.8	9.0	7.3	11	9.0	N272
SISP1172N-372F	3.7	N/A	±30%	2.4	8.3	8.5	9.2	8.3	N372
SISP1172N-472F	4.7	N/A	±30%	3.1	7.9	9.5	8.2	7.9	N472
SISP1172N-602F	6.0	N/A	±30%	3.9	6.0	16.5	6.9	6.0	N602
SISP1172N-762F	7.6	N/A	±30%	4.9	5.7	18.5	6.2	5.7	N762
SISP1172M-103F	10	±20%	N/A	7.5	5.2	21.8	5.5	5.2	M103
SISP1172M-123F	12	±20%	N/A	9.0	4.5	29.0	5.1	4.5	M123
SISP1172M-153F	15	±20%	N/A	11.3	4.1	35.4	4.4	4.1	M153
SISP1172M-183F	18	±20%	N/A	13.5	4.0	37.0	4.3	4.0	M183
SISP1172M-223F	22	±20%	N/A	16.5	3.8	42.0	3.8	3.8	M223
SISP1172M-273F	27	±20%	N/A	20.3	3.4	45.9	3.4	3.6	M273
SISP1172M-333F	33	±20%	N/A	24.8	3.0	64.8	3.0	3.1	M333
SISP1172M-393F	39	±20%	N/A	29.3	2.7	81.5	2.8	2.7	M393
SISP1172M-473F	47	±20%	N/A	35.3	2.6	89.0	2.6	2.6	M473
SISP1172M-683F	68	±20%	N/A	51.0	2.1	135.0	2.1	2.1	M683

Notes:

1. Ordering Information: SISP1172a - bbbFc.

SISP1172 = Product Type.

a = Tolerance of Inductance (M = ±20%, N = ±30%).

bbb = Inductance value in uH (i.e. 472 = 4.7uH; 473 = 47uH).

F = Internal Control Code.

c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Inductance is tested at 0.1Vrms, 100kHz.

3. The rated current as listed is either the saturation current or the heating current depending on which value is lower.

4. Saturation current, Isat, indicates the value of DC current when the inductance is 25% typical lower than its initial value.

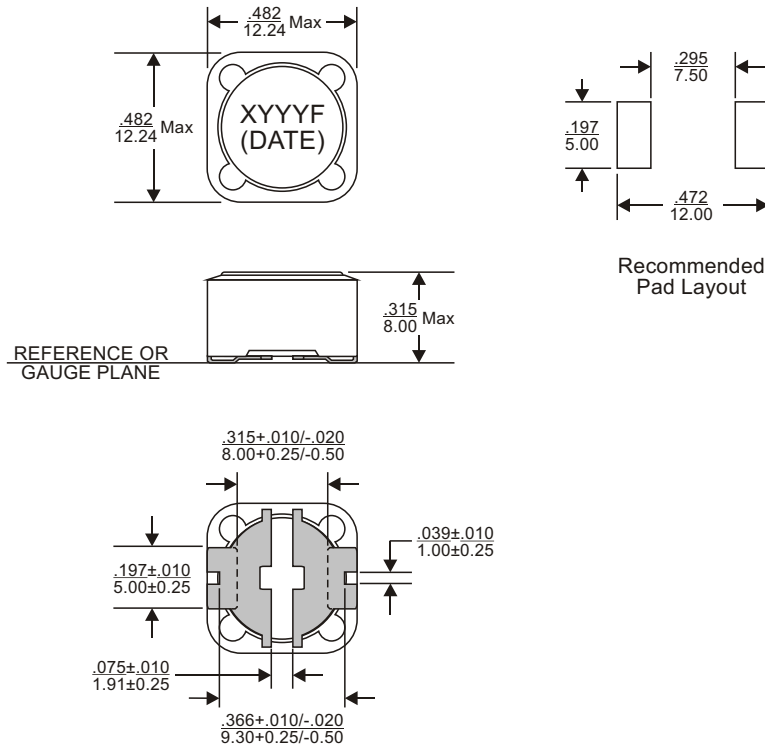
5. Heating current is the value of current when the temperature rising T=40°C typical.

6. Operating temperature range: -40°C to +125°C.

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.



MECHANICAL DIMENSIONS

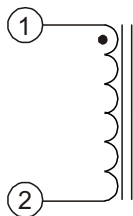


Notes:

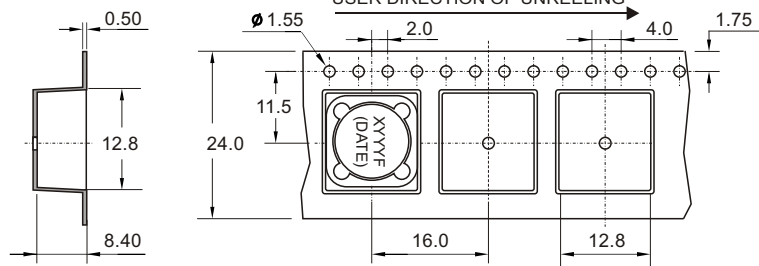
- 8. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 9. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 4.5 typ.
Tape & Reel	: 400 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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