





-  Magnetically Shielded
-  Low DCR and High breakdown voltage
-  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 Ls (uH)	Inductance	DCR (m Ω) Max	SRF (MHz) Typ	Inductance ³ Rating (H) Typ	Current ⁴ Rating (A)	Switching Frequency (Hz) Max	Marking (YYY)
		Tolerance(%) M						
SISDT1608M-102F	1.0	±20	45	180	0.60	2.0	1M	M102
SISDT1608M-152F	1.5	±20	50	120	0.80	1.9	1M	M152
SISDT1608M-222F	2.2	±20	60	100	0.90	1.5	1M	M222
SISDT1608M-332F	3.3	±20	70	70	1.50	1.2	1M	M332
SISDT1608M-472F	4.7	±20	80	60	2.00	1.2	1M	M472
SISDT1608M-682F	6.8	±20	85	50	3.00	1.0	1M	M682
SISDT1608M-103F	10	±20	95	45	5.00	0.7	1M	M103
SISDT1608M-153F	15	±20	135	35	6.00	0.6	1M	M153
SISDT1608M-223F	22	±20	160	25	10.0	0.5	1M	M223
SISDT1608M-333F	33	±20	275	20	12.0	0.45	1M	M333
SISDT1608M-473F	47	±20	300	17	20.0	0.34	1M	M473
SISDT1608M-683F	68	±20	575	14	30.0	0.29	1M	M683
SISDT1608M-104F	100	±20	1100	12	40.0	0.24	1M	M104
SISDT1608M-154F	150	±20	1400	7	60.0	0.20	500k	M154
SISDT1608M-224F	220	±20	2250	7	90.0	0.17	500k	M224
SISDT1608M-334F	330	±20	2900	6	100.0	0.16	500k	M334
SISDT1608M-474F	470	±20	3600	4	150.0	0.14	500k	M474
SISDT1608M-684F	680	±20	4550	3.5	200.0	0.12	500k	M684
SISDT1608M-105F	1000	±20	8100	2.5	400.0	0.08	500k	M105

Notes:

1. Ordering Information: SISDT1608a - bbbFc.

SISDT1608 = Product Type.

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

bbb = Inductance value in uH (i.e. 152 = 1.5uH; 153 = 15uH; 154 = 150uH; 106 = 1000uH).

F = Internal Control Code.

c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).

2. Inductance is tested at 100kHz.

3. Measured at the rated current.

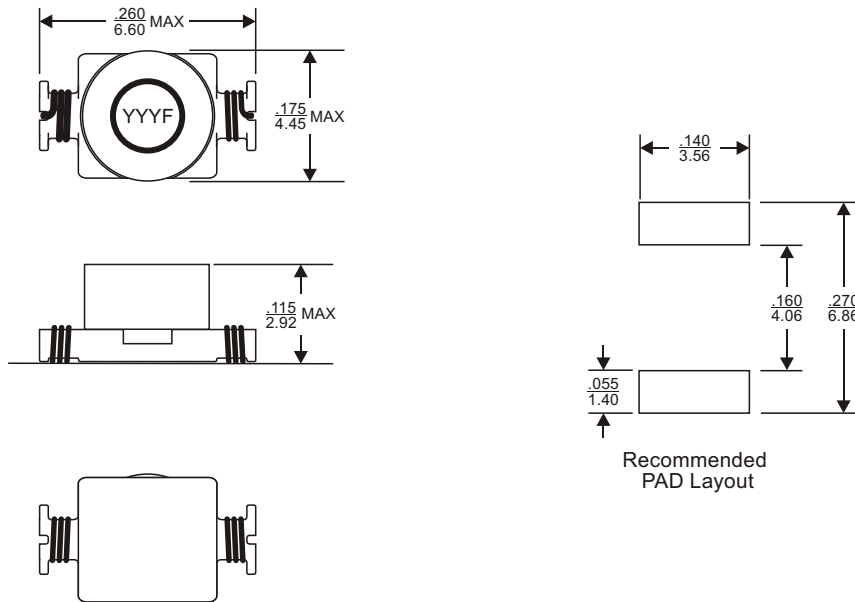
4. Average maximum allowable current.

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

6. 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

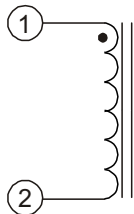


Notes:

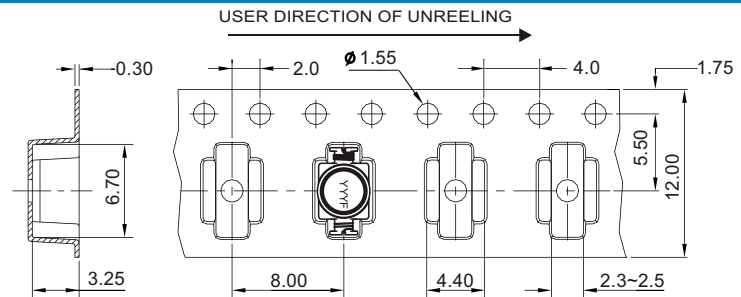
- 7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 0.6 typ.
Tape & Reel	: 650 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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