






-  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 (μ H)	Inductance Tolerance(%)			DCR (m Ω) Max	SRF (MHz) Typ	Inductance ³ Rating (H) Typ	Current ⁴ Rating (A)	Marking (YYY)
		K	L	M					
SISDT3316M-102F	1.0	N/A	N/A	\pm 20	25	60	0.50	5.0	M102
SISDT3316M-152F	1.5	N/A	N/A	\pm 20	30	55	0.70	5.0	M152
SISDT3316M-222F	2.2	N/A	N/A	\pm 20	35	55	1.00	5.0	M222
SISDT3316M-332F	3.3	N/A	N/A	\pm 20	40	50	1.50	5.0	M332
SISDT3316M-472F	4.7	N/A	N/A	\pm 20	45	45	2.00	3.0	M472
SISDT3316M-682F	6.8	N/A	N/A	\pm 20	50	40	4.00	2.5	M682
SISDT3316M-103F	10	N/A	N/A	\pm 20	55	35	5.00	2.0	M103
SISDT3316M-153F	15	N/A	N/A	\pm 20	60	25	6.00	1.8	M153
SISDT3316M-223F	22	N/A	N/A	\pm 20	84	22	10.0	1.5	M223
SISDT3316M-333F	33	N/A	N/A	\pm 20	90	18	12.0	1.3	M333
SISDT3316M-473F	47	N/A	N/A	\pm 20	110	16	27.0	1.0	M473
SISDT3316M-683F	68	N/A	N/A	\pm 20	150	12	40.0	0.90	M683
SISDT3316M-104F	100	N/A	N/A	\pm 20	290	9	50.0	0.80	M104
SISDT3316M-154F	150	N/A	N/A	\pm 20	360	8	80.0	0.60	M154
SISDT3316M-224F	220	N/A	N/A	\pm 20	390	6	90.0	0.50	M224
SISDT3316M-334F	330	N/A	N/A	\pm 20	730	5	150.0	0.40	M334
SISDT3316M-474F	470	N/A	N/A	\pm 20	880	4	200.0	0.35	M474
SISDT3316M-684F	680	N/A	N/A	\pm 20	1150	3	300.0	0.30	M684
SISDT3316X-105F	1000	\pm 10	\pm 15	\pm 20	1450	2.5	420.0	0.25	M105

Notes:

1. Ordering Information: SISDT3316a - bbbFc.

SISDT3316 = Product Type.

a = Tolerance of Inductance (M = \pm 20%).

bbb = Inductance value in μ H (i.e. 152 = 1.5 μ H; 153 = 15 μ H; 154 = 150 μ H; 105 = 1000 μ H).

F = Internal Control Code.

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

2. Inductance is tested at 100kHz.

3. Measured at the rated current.

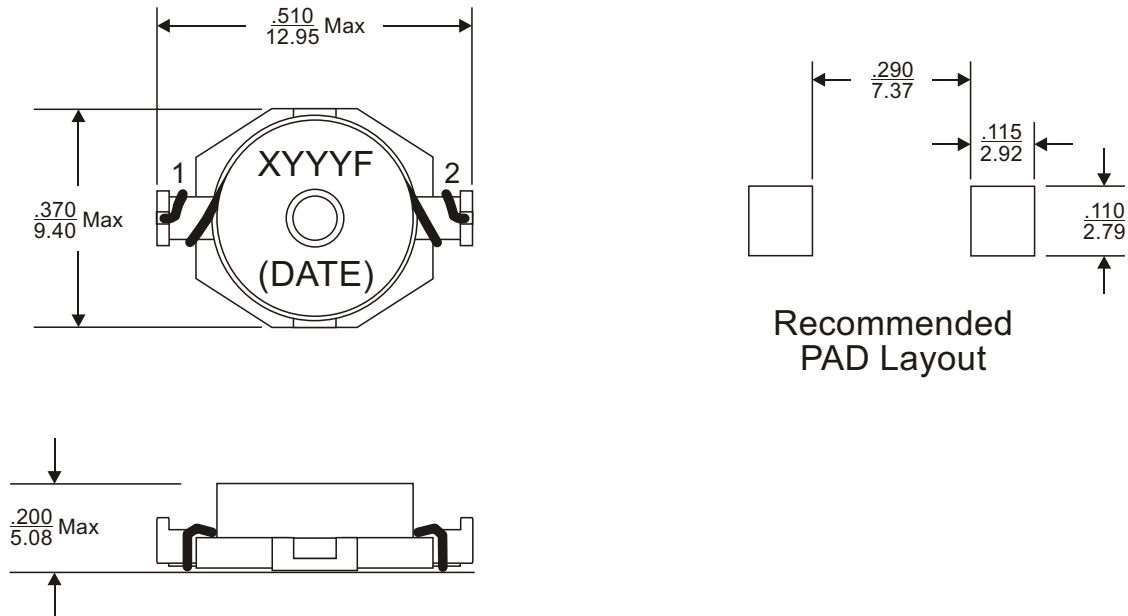
4. Average maximum allowable current.

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

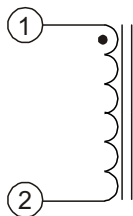


Notes:

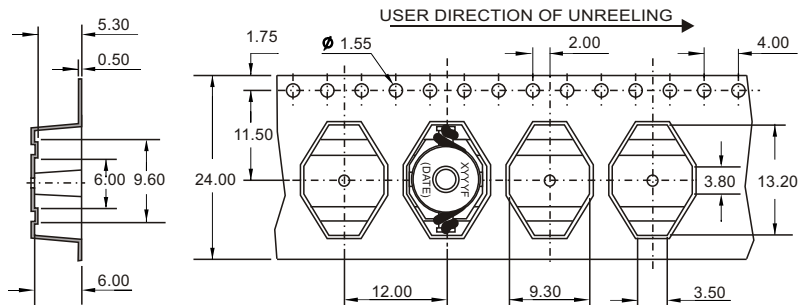
- 7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 1.0 typ.
Tape & Reel	: 800 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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