






-  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

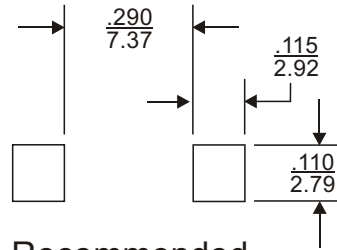
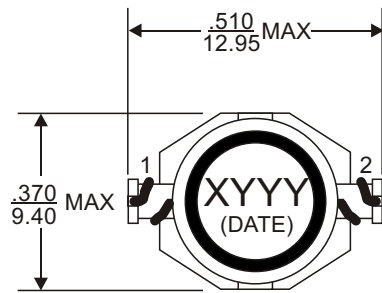
Part Number	Inductance ² Ls (μ H)	Inductance Tolerance(%)	DCR (m Ω) Max	SRF (MHz) Typ	Isat ³ (A)	Irms ⁴ (A)	Marking (YYY)
		M					
SISDS3316M-102F	1.0	\pm 20	21	140	5.6	5.0	M102
SISDS3316M-152F	1.5	\pm 20	22	120	5.2	4.5	M152
SISDS3316M-222F	2.2	\pm 20	32	80	5.0	3.8	M222
SISDS3316M-332F	3.3	\pm 20	39	70	3.9	3.3	M332
SISDS3316M-472F	4.7	\pm 20	54	40	3.2	2.7	M472
SISDS3316M-682F	6.8	\pm 20	75	38	2.8	2.2	M682
SISDS3316M-103F	10	\pm 20	101	35	2.4	2.0	M103
SISDS3316M-153F	15	\pm 20	150	25	2.0	1.5	M153
SISDS3316M-223F	22	\pm 20	207	19	1.6	1.3	M223
SISDS3316M-333F	33	\pm 20	334	15	1.4	1.1	M333
SISDS3316M-473F	47	\pm 20	472	13	1.0	0.8	M473
SISDS3316M-683F	68	\pm 20	660	10	0.9	0.7	M683
SISDS3316M-104F	100	\pm 20	1110	7	0.8	0.6	M104
SISDS3316M-154F	150	\pm 20	1550	6	0.6	0.5	M154
SISDS3316M-224F	220	\pm 20	2000	5	0.5	0.37	M224
SISDS3316M-105F	1000	\pm 20	8300	2	0.32	0.17	M105

Notes:

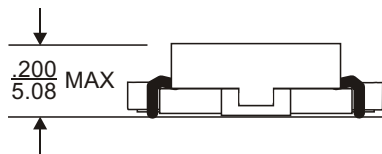
1. Ordering Information: SISDS3316a - bbbFc.
 SISDS3316 = Product Type.
 a = Tolerance of Inductance (M = \pm 20%).
 bbb = Inductance value in μ H (i.e. 152 = 1.5 μ H; 153 = 15 μ H; 154 = 150 μ H; 105 = 1000 μ H).
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 100kHz, 100mV.
3. Isat, indicates the value of DC current when the inductance is 10% typical lower than its initial value.
4. Irms is the value of current when the temperature rising $T=40^{\circ}$ C typical.
5. Operating temperature range: -40° C to $+125^{\circ}$ 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



**Recommended
PAD Layout**

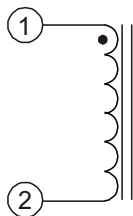


Notes:

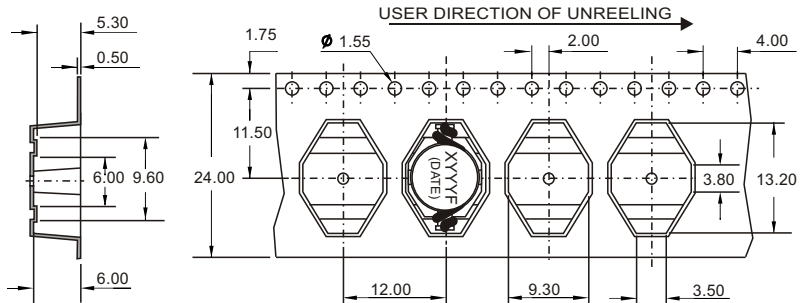
- 7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

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

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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