






-  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

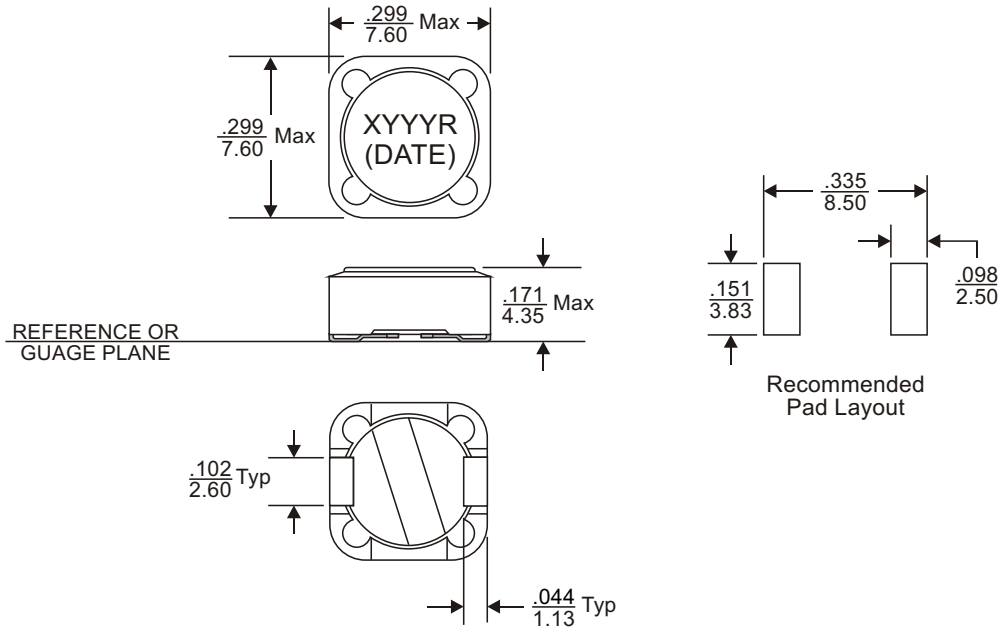
Part Number	Inductance ² (uH)	Inductance Tolerance	DCR (m Typ)	Isat ³ (A)	Irms ⁴ (A)	Volt- Sec Typ.	Marking (YYYY)
SISDR74M-R33R	0.294	±20%	7.4	18.4	6.26	1.71	MR33
SISDR74M-1R0R	0.952	±20%	9.9	10.2	5.39	3.08	M1R0
SISDR74M-1R5R	1.422	±20%	11.8	8.35	4.94	3.76	M1R5
SISDR74M-2R2R	1.986	±20%	12.6	7.06	4.76	4.45	M2R2
SISDR74M-3R3R	3.396	±20%	18.3	5.40	3.94	5.81	M3R3
SISDR74M-4R7R	5.182	±20%	25.4	4.37	3.34	7.18	M4R7
SISDR74M-6R8R	7.344	±20%	41.8	3.67	2.60	8.55	M6R8
SISDR74M-8R2R	8.566	±20%	44.1	3.40	2.53	9.23	M8R2
SISDR74M-100R	9.882	±20%	48.9	3.17	2.41	9.92	M100
SISDR74M-150R	16.09	±20%	63.7	2.48	2.11	12.7	M150
SISDR74M-220R	21.73	±20%	92.5	2.13	1.75	14.7	M220
SISDR74M-330R	33.01	±20%	143	1.73	1.41	18.1	M330
SISDR74M-470R	49.64	±20%	216	1.41	1.15	22.2	M470
SISDR74M-680R	69.67	±20%	265	1.19	1.03	26.3	M680
SISDR74M-820R	80.95	±20%	345	1.11	0.91	28.4	M820
SISDR74M-101R	101.6	±20%	383	0.99	0.86	31.8	M101
SISDR74M-151R	150.0	±20%	591	0.81	0.69	38.6	M151
SISDR74M-221R	227.0	±20%	907	0.66	0.56	47.5	M221
SISDR74M-331R	335.6	±20%	1410	0.54	0.45	57.8	M331
SISDR74M-471R	465.3	±20%	1740	0.46	0.40	68.1	M471
SISDR74M-681R	671.2	±20%	2580	0.38	0.33	81.7	M681
SISDR74M-821R	812.7	±20%	2930	0.35	0.31	89.9	M821
SISDR74M-102R	1009	±20%	3890	0.31	0.27	100	M102

Notes:

- Ordering Information: SISDR74a - bbbRc.
 SISDR74 = Product Type.
 a = Tolerance of Inductance (M = ±20%).
 bbb = Inductance value in uH (i.e. 4R7 = 4.7uH; 470 = 47uH; 471 = 470uH; 102 = 1000uH).
 R = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
- Inductance is tested at 0.25Vrms, 100kHz.
- Saturation current, Isat, indicates the value of DC current when the inductance is 30% typical lower than its initial value.



MECHANICAL DIMENSIONS

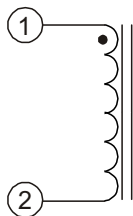


Notes:

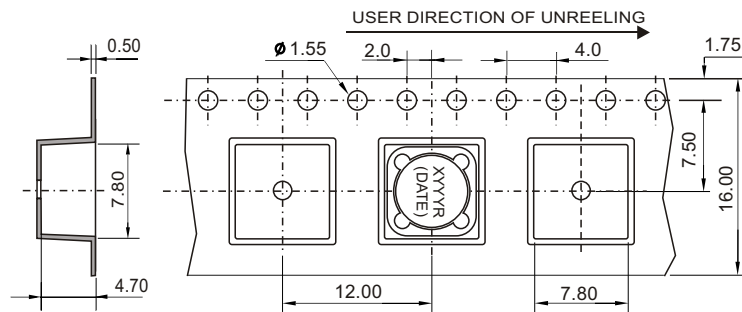
4. Heating current, Irms, is the value of current when the temperature rising T=40°C typical.
5. Operating temperature range: -40°C to +125°C.
6. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. 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.
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)	: 3.0 typ.
Tape & Reel	: 1000 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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