






-  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

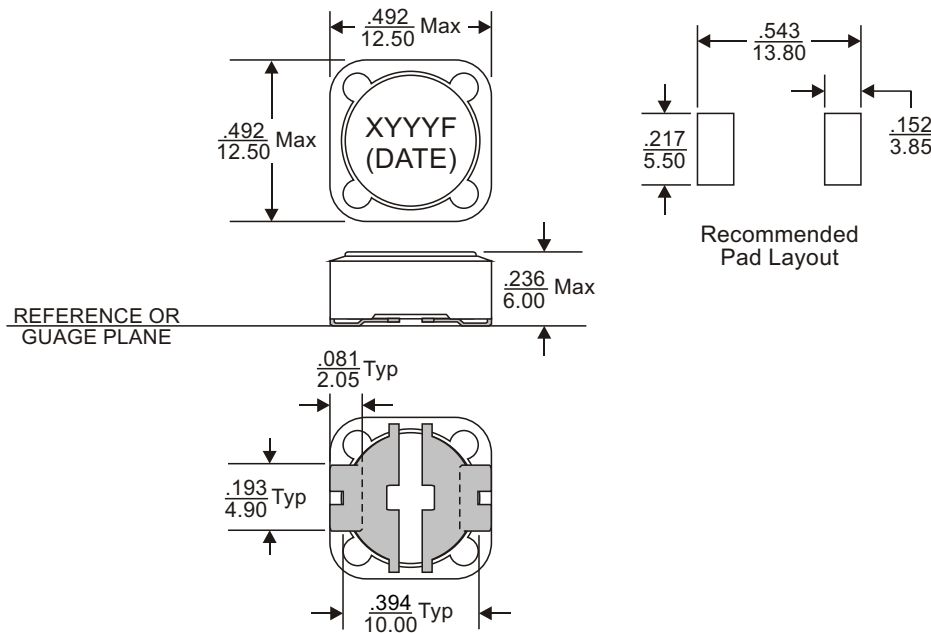
Part Number	Inductance ² (uH)	Inductance Tolerance	DCR (m Typ)	Isat ³ (A)	Irms ⁴ (A)	Volt- Sec Typ.	Marking (YYYY)
SISDR125M-R47F	0.456	±20%	1.7	33.0	18.4	3.17	MR47
SISDR125M-1R0F	0.894	±20%	2.3	23.6	15.5	4.43	M1R0
SISDR125M-1R5F	1.478	±20%	2.7	18.3	14.1	5.70	M1R5
SISDR125M-2R2F	2.208	±20%	4.4	15.0	11.1	6.97	M2R2
SISDR125M-3R3F	3.084	±20%	6.3	12.7	9.26	8.23	M3R3
SISDR125M-4R7F	5.274	±20%	10.5	9.71	7.18	10.8	M4R7
SISDR125M-6R8F	6.588	±20%	12.3	8.68	6.64	12.0	M6R8
SISDR125M-8R2F	8.048	±20%	17.6	7.86	5.54	13.3	M8R2
SISDR125M-100F	9.654	±20%	18.9	7.17	5.35	14.6	M100
SISDR125M-150F	15.35	±20%	29.8	5.69	4.27	18.4	M150
SISDR125M-220F	22.36	±20%	39.6	4.71	3.70	22.2	M220
SISDR125M-330F	33.74	±20%	50.5	3.84	3.28	27.2	M330
SISDR125M-470F	47.47	±20%	74.0	3.24	2.71	32.3	M470
SISDR125M-680F	67.91	±20%	101	2.70	2.22	38.6	M680
SISDR125M-820F	86.89	±20%	128	2.39	2.05	43.7	M820
SISDR125M-101F	102.7	±20%	170	2.20	1.78	47.5	M101
SISDR125M-151F	151.1	±20%	248	1.81	1.48	57.6	M151
SISDR125M-221F	216.8	±20%	384	1.51	1.19	69.0	M221
SISDR125M-331F	332.6	±20%	482	1.22	1.06	85.5	M331
SISDR125M-471F	473.1	±20%	718	1.02	0.87	102	M471
SISDR125M-681F	679.8	±20%	1100	0.85	0.70	122	M681
SISDR125M-821F	828.0	±20%	1490	0.77	0.60	135	M821
SISDR125M-102F	1008	±20%	1690	0.70	0.57	149	M102

Notes:

1. Ordering Information: SISDR125Ra - bbbFc.
 SISDR125R = Product Type.
 a = Tolerance of Inductance (M = ±20%).
 bbb = Inductance value in uH (i.e. R47 = 0.47uH; 1R5 = 1.5uH; 150 = 15uH; 151 = 150uH; 102 = 1000uH).
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 0.25Vrms, 100kHz.
3. Saturation current, Isat, indicates the value of DC current when the inductance is 30% typical lower than its initial value.



MECHANICAL DIMENSIONS

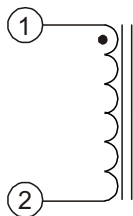


Notes:

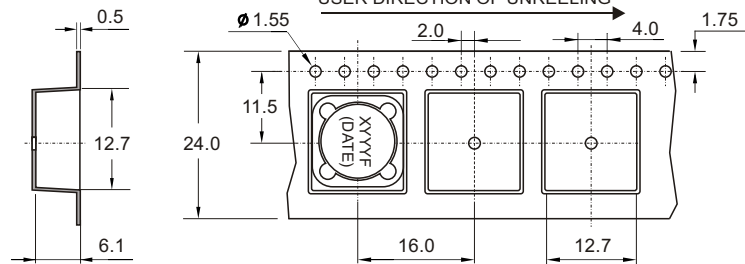
4. Heating current, I_{rms}, is the value of current when the temperature rising T=40°C typical.
5. Operating temperature range: -40°C to +125°C.
6. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating 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)	: 3.5 typ.
Tape & Reel	: 600 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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