






-  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 <sup>2</sup> (uH)	Inductance Tolerance	DCR (m Typ)	Isat <sup>3</sup> (A)	Irms <sup>4</sup> (A)	Volt- Sec Typ.	Marking (YYYY)
SISDR127M-R47R	0.419	±20%	1.81	56.0	18.6	3.50	MR47
SISDR127M-1R0R	0.821	±20%	2.47	40.0	15.9	4.90	M1R0
SISDR127M-1R5R	1.357	±20%	3.27	31.1	13.8	6.30	M1R5
SISDR127M-2R2R	2.027	±20%	3.88	25.5	12.7	7.70	M2R2
SISDR127M-3R3R	2.831	±20%	5.67	21.5	10.5	9.10	M3R3
SISDR127M-4R7R	4.841	±20%	9.17	16.5	8.25	11.9	M4R7
SISDR127M-6R8R	7.387	±20%	11.6	13.3	7.34	14.7	M6R8
SISDR127M-8R2R	8.861	±20%	15.7	12.2	6.32	16.1	M8R2
SISDR127M-100R	10.47	±20%	17.2	11.2	6.04	17.5	M100
SISDR127M-150R	14.09	±20%	24.7	9.66	5.03	20.3	M150
SISDR127M-220R	22.93	±20%	39.1	7.57	4.00	25.9	M220
SISDR127M-330R	33.92	±20%	60.0	6.22	3.23	31.5	M330
SISDR127M-470R	47.05	±20%	71.9	5.28	2.95	37.1	M470
SISDR127M-680R	66.48	±20%	105	4.44	2.44	44.1	M680
SISDR127M-820R	79.75	±20%	143	4.06	2.09	48.3	M820
SISDR127M-101R	99.31	±20%	163	3.64	1.96	53.9	M101
SISDR127M-151R	144.9	±20%	247	3.01	1.59	65.1	M151
SISDR127M-221R	221.5	±20%	376	2.43	1.29	80.5	M221
SISDR127M-331R	323.6	±20%	574	2.01	1.04	97.3	M331
SISDR127M-471R	467.1	±20%	861	1.68	0.85	117	M471
SISDR127M-681R	676.7	±20%	1080	1.39	0.76	141	M681
SISDR127M-821R	818.1	±20%	1470	1.27	0.65	155	M821
SISDR127M-102R	1005	±20%	1660	1.14	0.61	172	M102
SISDR127K-222R	2200	±10%	4200	0.42	0.40	254.1	K222

**Notes:**

1. Ordering Information: SISDR127a - bbbRc.

SISDR127 = Product Type.

a = Tolerance of Inductance (M = ±20%, K = ±10%).

bbb = Inductance value in uH (i.e. R47 = 0.47uH; 4R7 = 4.7uH; 470 = 47uH; 471 = 470uH; 102 = 1000uH).

R = Internal Control Code.

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

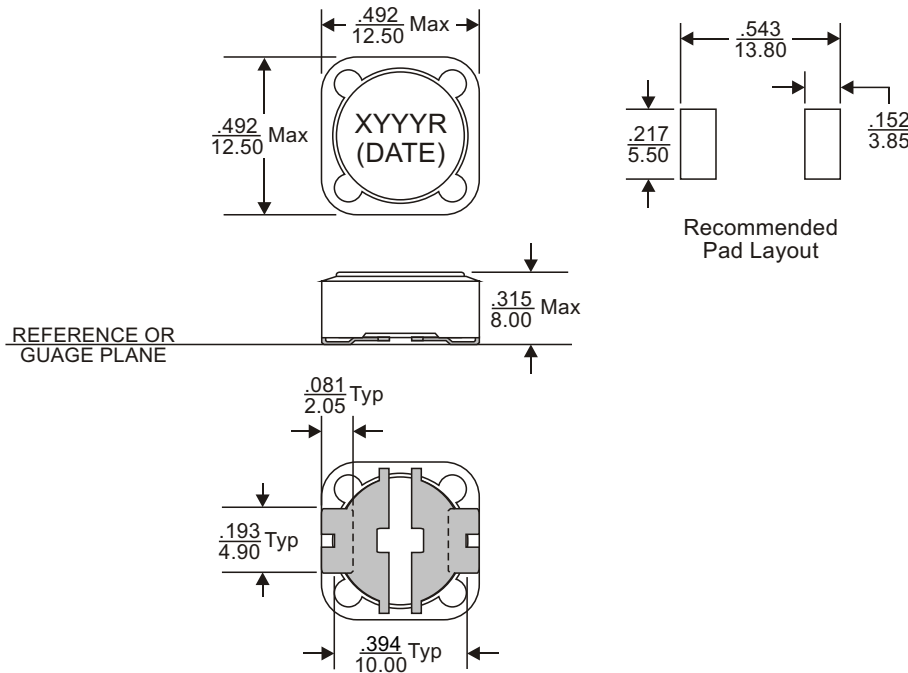
2. Inductance is tested at 0.25Vrms, 100kHz.

3. Saturation current, Isat, indicates the value of DC current when the inductance is 30% typical lower than its initial value.

4. Heating current, Irms, is the value of current when the temperature rising T=40°C typical.



**MECHANICAL DIMENSIONS**

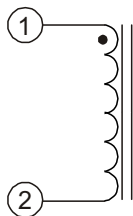


**Notes:**

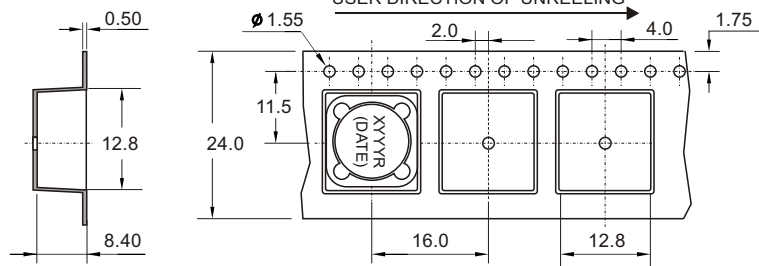
- Operating temperature range: -40°C to +125°C.
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- All dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in mm.
- Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ .

Weight (in gram)	: 4.0 typ.
Tape & Reel	: 400 / reel

**SCHEMATIC**



**PACKAGING**



**FOR MORE INFORMATION, PLEASE CONTACT**

**HEADQUARTER**

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