











-  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> @0Adc (uH)	Inductance Tolerance		Inductance <sup>3</sup> @Irated (uH)Min	Irated (Adc)	DCR (m ) (Max)	Saturation <sup>4</sup> Current (A)	Heating <sup>5</sup> Current Irms(A)	Marking (YYYY)
		M	N						
SIS7535N-0R6R	0.68	N/A	±30%	0.44	5.5	6.0	5.9	5.5	N0R6
SIS7535N-1R0R	1.00	N/A	±30%	0.65	4.9	7.5	5.2	4.9	N1R0
SIS7535N-1R6R	1.60	N/A	±30%	1.0	4.0	11	4.0	4.4	N1R6
SIS7535N-3R0R	3.00	N/A	±30%	2.0	2.8	23	3.0	2.8	N3R0
SIS7535N-4R8R	4.80	N/A	±30%	3.1	2.4	31	2.4	2.5	N4R8
SIS7535N-6R8R	6.80	N/A	±30%	4.4	2.1	40	2.1	2.2	N6R8
SIS7535M-100R	10	±20%	N/A	7.5	1.6	70	1.8	1.6	M100
SIS7535M-120R	12	±20%	N/A	9.0	1.5	78	1.7	1.5	M120
SIS7535M-150R	15	±20%	N/A	11.3	1.4	92	1.5	1.4	M150
SIS7535M-180R	18	±20%	N/A	13.5	1.2	124	1.4	1.2	M180
SIS7535M-220R	22	±20%	N/A	16.5	1.2	126	1.2	1.2	M220
SIS7535M-270R	27	±20%	N/A	20.3	1.0	180	1.1	1.0	M270
SIS7535M-330R	33	±20%	N/A	24.8	0.94	205	1.0	0.94	M330
SIS7535M-390R	39	±20%	N/A	29.3	0.86	211	0.86	0.90	M390
SIS7535M-470R	47	±20%	N/A	35.3	0.83	260	0.83	0.85	M470
SIS7535M-560R	56	±20%	N/A	42.0	0.73	340	0.73	0.74	M560
SIS7535M-680R	68	±20%	N/A	51.0	0.67	370	0.67	0.70	M680
SIS7535M-820R	82	±20%	N/A	61.5	0.60	500	0.61	0.60	M820
SIS7535M-101R	100	±20%	N/A	75.0	0.56	580	0.56	0.57	M101
SIS7535M-121R	120	±20%	N/A	90.0	0.53	645	0.55	0.53	M121
SIS7535M-151R	150	±20%	N/A	113	0.46	860	0.46	0.46	M151
SIS7535M-181R	180	±20%	N/A	135	0.39	1190	0.42	0.39	M181
SIS7535M-221R	220	±20%	N/A	165	0.35	1480	0.37	0.35	M221
SIS7535M-271R	270	±20%	N/A	203	0.32	1750	0.32	0.33	M271
SIS7535M-331R	330	±20%	N/A	248	0.31	1880	0.31	0.31	M331
SIS7535M-391R	390	±20%	N/A	293	0.26	2600	0.29	0.26	M391

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		M	N						
		SIS7535M-471R	470						
SIS7535M-561R	560	±20%	N/A	420	0.23	3400	0.23	0.23	M561
SIS7535M-681R	680	±20%	N/A	510	0.20	4450	0.21	0.20	M681
SIS7535M-821R	820	±20%	N/A	615	0.17	6200	0.20	0.17	M821
SIS7535M-102R	1000	±20%	N/A	750	0.15	8000	0.16	0.15	M102

**Notes:**

1. Ordering Information: SIS7535a - bbbRc.

SIS7535 = Product Type.

a = Tolerance of Inductance (M = ±20%; N = ±30%).

bbb = Inductance value in uH (i.e. 4R8 = 4.8uH; 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 1MHz, 0.1Vrms, 0Adc.

3. The rated current listed is either the saturation current or the heating current, whichever is lower.

4. The saturation current is the current which causes the inductance to drop to 65% typical of its initial value at zero bias.

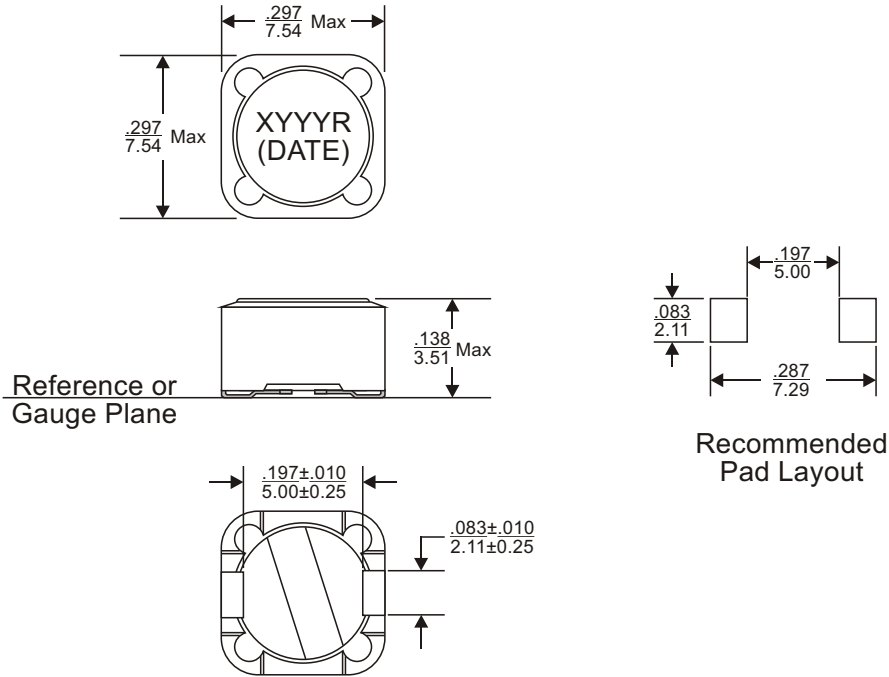
5. Heating current is the current required to raise the part temperature by approximately 40 C.

6. Operating temperature range: -40°C to +125°C.

7. 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**

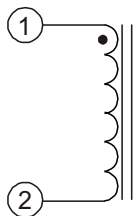


**Notes:**

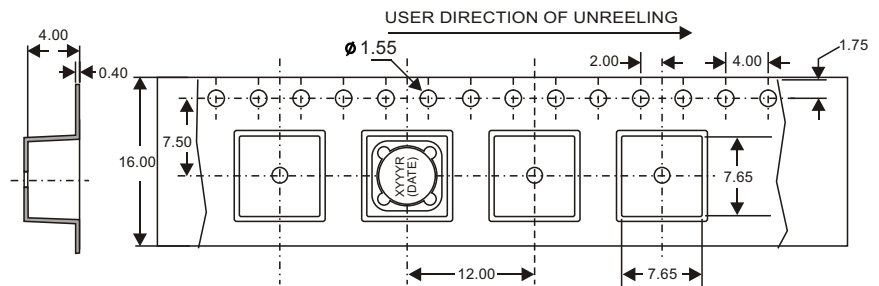
- 8. All dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in mm.
- 9. Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ .

Weight (in gram)	: 0.8 typ.
Tape & Reel	: 1200 / reel

**SCHEMATIC**



**PACKAGING**



**FOR MORE INFORMATION, PLEASE CONTACT**

**HEADQUARTER**

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