





-  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 ( ) (Max)	Rated <sup>3</sup> Current (A)	Marking (YYYY)
		M	N			
SIS6230N-2R9R	2.9	N/A	+40/-20	68m	1.94	N2R9
SIS6230N-4R0R	4.0	N/A	+40/-20	80m	1.63	N4R0
SIS6230N-5R5R	5.5	N/A	+40/-20	96m	1.40	N5R5
SIS6230N-6R3R	6.3	N/A	+40/-20	0.10	1.30	N6R3
SIS6230N-7R1R	7.1	N/A	+40/-20	0.11	1.22	N7R1
SIS6230N-8R0R	8.0	N/A	+40/-20	0.12	1.15	N8R0
SIS6230M-100R	10	±20	N/A	0.15	1.10	M100
SIS6230M-120R	12	±20	N/A	0.20	1.00	M120
SIS6230M-150R	15	±20	N/A	0.23	0.90	M150
SIS6230M-180R	18	±20	N/A	0.27	0.80	M180
SIS6230M-220R	22	±20	N/A	0.34	0.74	M220
SIS6230M-270R	27	±20	N/A	0.38	0.66	M270
SIS6230M-330R	33	±20	N/A	0.45	0.59	M330
SIS6230M-390R	39	±20	N/A	0.49	0.54	M390
SIS6230M-470R	47	±20	N/A	0.69	0.50	M470
SIS6230M-560R	56	±20	N/A	0.78	0.46	M560
SIS6230M-680R	68	±20	N/A	1.07	0.42	M680
SIS6230M-820R	82	±20	N/A	1.21	0.38	M820
SIS6230M-101R	100	±20	N/A	1.39	0.34	M101
SIS6230M-121R	120	±20	N/A	1.90	0.31	M121
SIS6230M-151R	150	±20	N/A	2.18	0.28	M151
SIS6230M-181R	180	±20	N/A	2.77	0.26	M181
SIS6230M-221R	220	±20	N/A	3.12	0.23	M221
SIS6230M-271R	270	±20	N/A	4.38	0.22	M271
SIS6230M-331R	330	±20	N/A	4.94	0.19	M331

**Notes:**

1. Ordering Information: SIS6230a - bbbRc.

SIS6230 = Product Type.

a = Tolerance of Inductance (M= ±20%; N= +40/-20%).

bbb = Inductance value in uH (i.e. 2R9 = 2.9uH; 120 = 12uH; 121 = 120uH).

R = Internal Control Code.

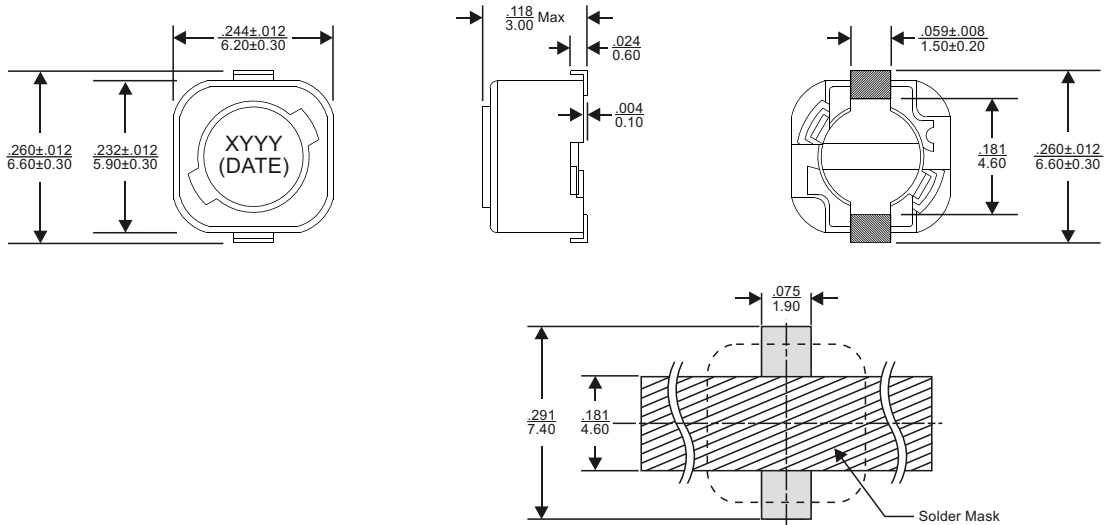
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Inductance, 2.9uH~8.0uH, is tested at 1MHz; 10uH~330uH, is tested at 1kHz.

3. Rated current indicates the value of DC current when the inductance is maintained at 75% more than its initial value, or the value of current when the temperature rising  $t = 40^{\circ}\text{C}$ , whichever is lower.



**MECHANICAL DIMENSIONS**



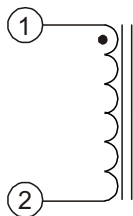
Recommended Pad Layout

**Notes:**

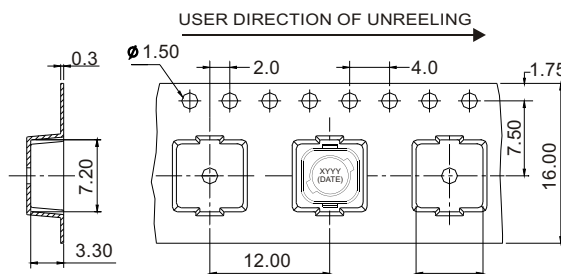
- Operating temperature range: -40°C to +125°C.
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling 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  $\pm .010$  /  $\pm 0.25$ .

Weight (in gram)	: 0.35 typ.
Tape & Reel	: 1500 / reel

**SCHEMATIC**



**PACKAGING**



**FOR MORE INFORMATION, PLEASE CONTACT**

**HEADQUARTER**

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