




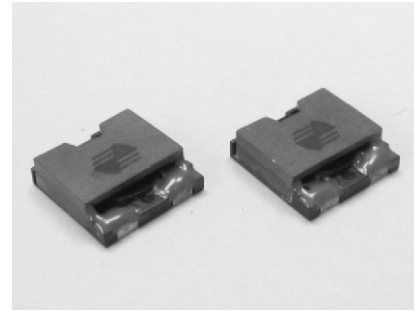


-  Magnetically Shielded
-  High energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

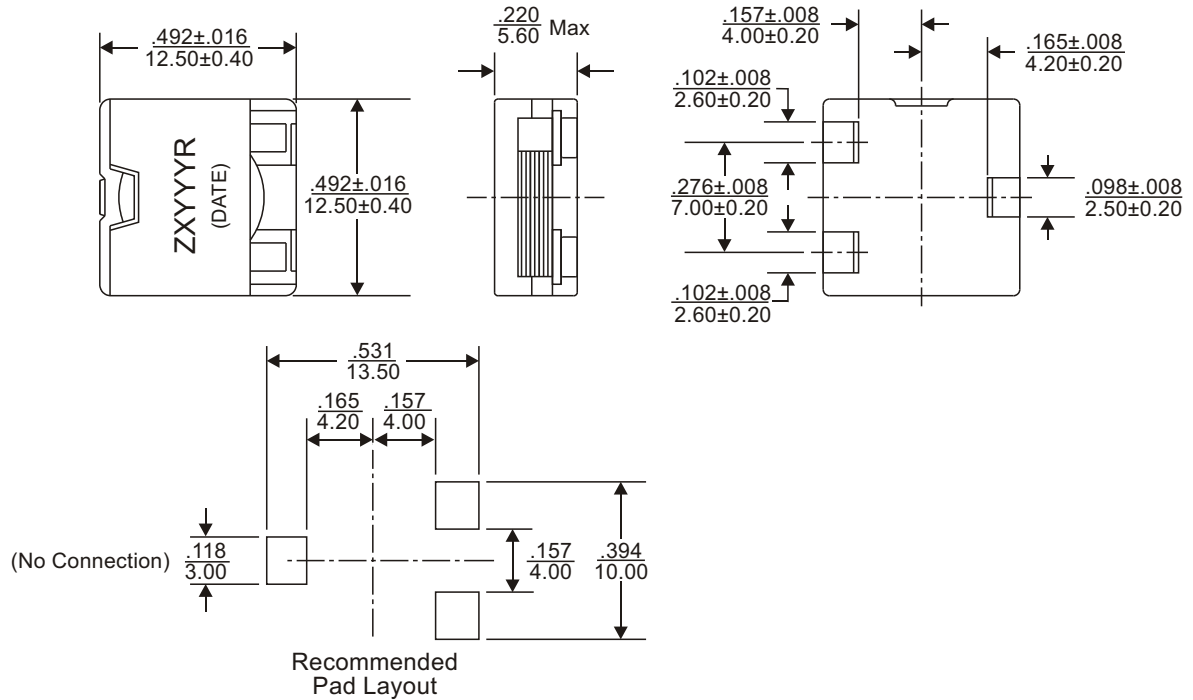
Part Number	Inductance ² (uH)	Inductance Tolerance (%)		DCR (m Max)	Saturation Current ³ (A)	Heating Current ⁴ (A)	Marking (ZXYYY)
		M	N				
SIS125LN-0R6R	0.68	N/A	±30	1.5	20.4	19.5	LN0R6
SIS125LM-1R5R	1.5	±20	N/A	2.2	14.0	18.0	LM1R5
SIS125LM-2R5R	2.5	±20	N/A	3.4	10.0	15.5	LM2R5
SIS125LM-4R0R	4.0	±20	N/A	5.4	8.3	12.5	LM4R0
SIS125LM-6R0R	6.0	±20	N/A	8.0	6.7	9.9	LM6R0
SIS125LM-8R2R	8.2	±20	N/A	11.4	5.8	8.2	LM8R2
SIS125LM-100R	10	±20	N/A	13.5	5.0	7.6	LM100
SIS125HN-0R4R	0.47	N/A	±30	1.5	28.8	19.5	HN0R4
SIS125HM-1R0R	1.0	±20	N/A	2.2	20.0	18.0	HM1R0
SIS125HM-1R8R	1.8	±20	N/A	3.4	15.3	15.5	HM1R8
SIS125HM-2R8R	2.8	±20	N/A	5.4	12.3	12.5	HM2R8
SIS125HM-4R0R	4.0	±20	N/A	8.0	10.3	9.9	HM4R0
SIS125HM-5R6R	5.6	±20	N/A	11.4	8.8	8.2	HM5R6
SIS125HM-7R2R	7.2	±20	N/A	13.5	7.8	7.6	HM7R2
SIS125UN-0R3R	0.35	N/A	±30	1.5	35.0	19.5	UN0R3
SIS125UN-0R8R	0.8	N/A	±30	2.2	25.7	18.0	UN0R8
SIS125UM-1R4R	1.4	±20	N/A	3.4	19.2	15.5	UM1R4
SIS125UM-2R2R	2.2	±20	N/A	5.4	14.8	12.5	UM2R2
SIS125UM-3R2R	3.2	±20	N/A	8.0	12.8	9.9	UM3R2
SIS125UM-4R3R	4.3	±20	N/A	11.4	11.0	8.2	UM4R3
SIS125UM-5R6R	5.6	±20	N/A	13.5	9.5	7.6	UM5R6

Notes:

1. Ordering Information: SIS125L/H/Ua - bbbRc.
 SIS125L/H/U = Product Type.
 a = Tolerance of Inductance (M = ±20%; N = ±30%)).
 bbb = Inductance value in uH (i.e. 0R4 = 0.47uH; 6R0=6.0uH; 5R6 = 5.6uH).
 R = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 100kHz.
3. Saturation current, Isat, indicates the value of DC current when the inductance is 35% typical (while the tolerance is ±30%) or 25% typical (while the tolerance is ±20%) lower than its initial value.
4. Heating current, Irms, is the value of current when the temperature rising T=40°C typical.
5. Operating temperature range: -40°C to +130°C.



MECHANICAL DIMENSIONS

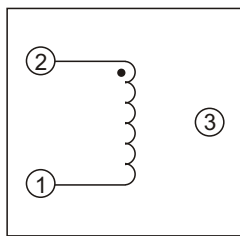


Notes:

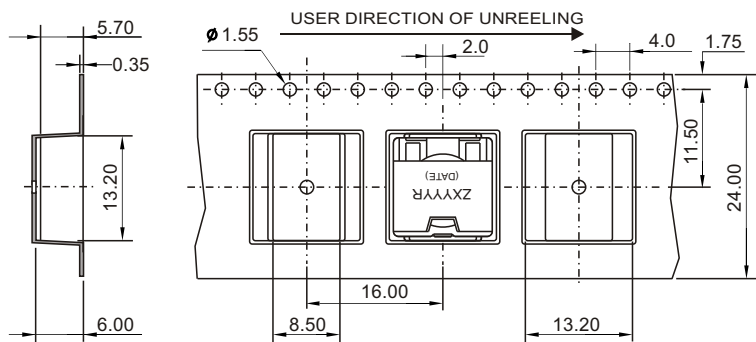
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. 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)	: 2.5 typ.
Tape & Reel	: 600 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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