




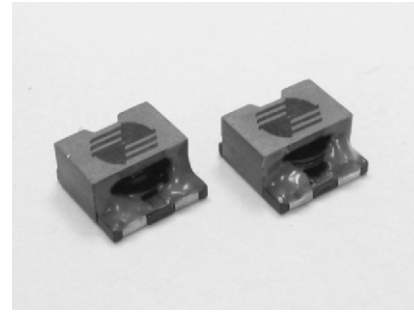


-  Magnetically Shielded
-  High energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² (uH)	Inductance Tolerance (%)	DCR (m Max)	Saturation Current ³ (A)		Heating Current ⁴ (A)	Marking (ZXYYY)
				at 25°C	at 100°C		
SIS105LN-R36R	0.36	±30	1.7	24.0	20.0	19.0	LNR36
SIS105LM-R80R	0.80	±20	2.4	16.0	13.2	17.7	LMR80
SIS105LM-1R4R	1.4	±20	4.1	12.0	10.0	13.0	LM1R4
SIS105LM-2R2R	2.2	±20	5.3	9.6	8.0	11.2	LM2R2
SIS105LM-3R2R	3.2	±20	7.5	7.8	6.6	9.0	LM3R2
SIS105LM-4R3R	4.3	±20	10.5	6.8	5.7	7.8	LM4R3
SIS105LM-5R7R	5.7	±20	12.4	5.8	4.9	7.4	LM5R7
SIS105LM-7R2R	7.2	±20	18.0	5.3	4.2	6.2	LM7R2
SIS105LM-8R8R	8.8	±20	23.8	4.8	4.0	4.9	LM8R8
SIS105SN-R22R	0.22	±30	1.7	40.0	30.9	19.0	SNR22
SIS105SM-R45R	0.45	±20	2.4	26.4	21.2	17.7	SMR45
SIS105SM-R80R	0.8	±20	4.1	20.8	16.7	13.0	SMR80
SIS105SM-1R3R	1.3	±20	5.3	16.8	13.4	11.2	SM1R3
SIS105SM-1R8R	1.8	±20	7.5	13.8	11.0	9.0	SM1R8
SIS105SM-2R5R	2.5	±20	10.5	11.8	9.6	7.8	SM2R5
SIS105SM-3R2R	3.2	±20	12.4	10.5	8.4	7.4	SM3R2
SIS105SM-4R0R	4.0	±20	18.0	9.3	7.4	6.2	SM4R0
SIS105SM-5R0R	5.0	±20	23.8	8.4	6.7	4.9	SM5R0
SIS105HN-R15R	0.15	±30	1.7	55.0	46.0	19.0	HNR15
SIS105HN-R30R	0.3	±30	2.4	40.0	33.0	17.7	HNR30
SIS105HM-R50R	0.5	±20	4.1	30.4	25.0	13.0	HMR50
SIS105HM-R80R	0.8	±20	5.3	25.2	20.7	11.2	HMR80
SIS105HM-1R2R	1.2	±20	7.5	21.0	17.4	9.0	HM1R2
SIS105HM-1R5R	1.5	±20	10.5	18.0	15.0	7.8	HM1R5
SIS105HM-2R2R	2.0	±20	12.4	15.8	13.1	7.4	HM2R0
SIS105HM-2R5R	2.5	±20	18.0	14.0	11.7	6.2	HM2R5
SIS105HM-3R0R	3.0	±20	23.8	12.6	10.5	4.9	HM3R0

Notes: 1. Ordering Information: SIS105L/S/Ha - bbbRc.

SIS105L/S/H = Product Type.

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

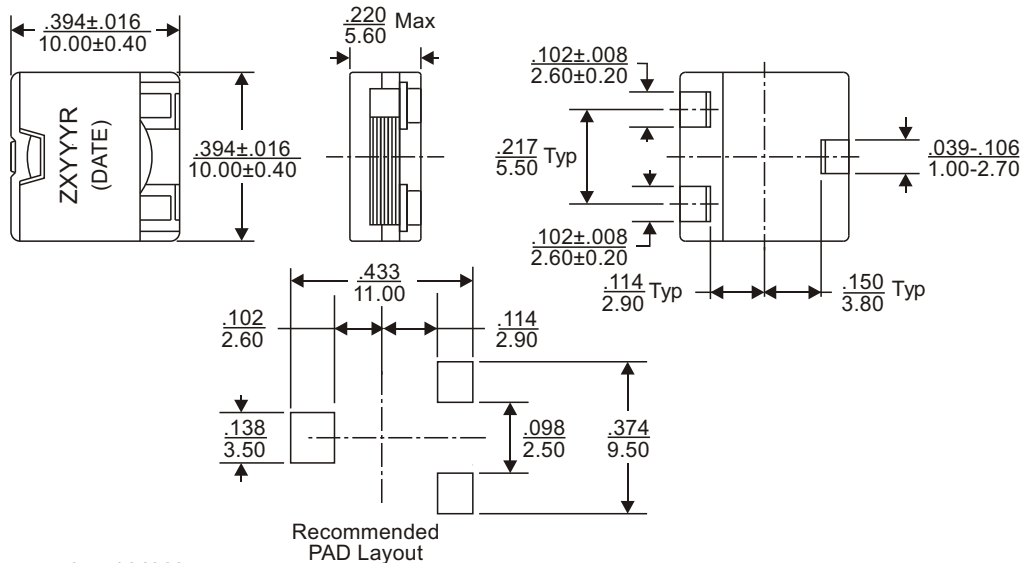
bbb = Inductance value in uH (i.e. R36 = 0.36uH; 1R4 = 1.4uH; 5R0 = 5.0uH).

R = Internal Control Code.

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



MECHANICAL DIMENSIONS

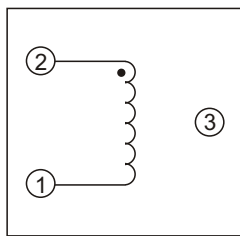


Notes:

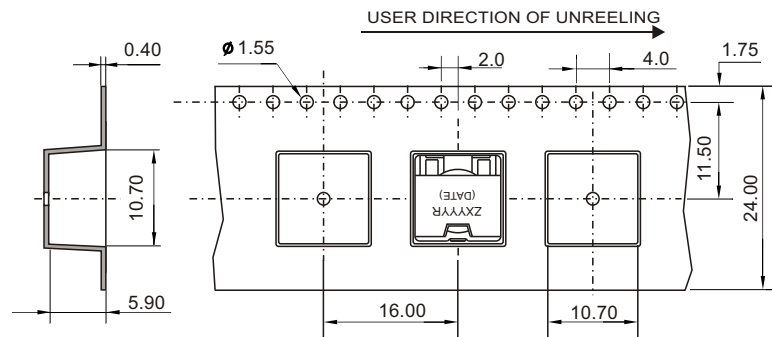
- Inductance is tested at 100kHz.
- Saturation current, I_{sat} , indicates the value of DC current when the inductance is 35% typical (while the tolerance is $\pm 30\%$) or the inductance is 25% typical (while the tolerance is $\pm 20\%$) lower than its nominal value.
- Heating current, I_{rms} , is the value of current when the temperature rising $T=40^\circ\text{C}$ typical.
- Operating temperature range: -40°C to $+130^\circ\text{C}$.
- 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)	: 2.0 typ.
Tape & Reel	: 600 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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