






-  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 ² (uH)	Inductance tolerance M	DCR (m Ω) Max	Isat ³ (A)	Irated ⁴ (A)	Marking (YYYY)
SIS1212M-100R	10	±20%	25	5.60	4.09	M100
SIS1212M-120R	12	±20%	27	4.85	3.91	M120
SIS1212M-150R	15	±20%	30	4.55	3.75	M150
SIS1212M-180R	18	±20%	34	4.30	3.48	M180
SIS1212M-220R	22	±20%	36	3.77	3.37	M220
SIS1212M-270R	27	±20%	51	3.55	2.97	M270
SIS1212M-330R	33	±20%	57	3.00	2.68	M330
SIS1212M-390R	39	±20%	68	2.74	2.49	M390
SIS1212M-470R	47	±20%	75	2.60	2.21	M470
SIS1212M-560R	56	±20%	110	2.35	2.01	M560
SIS1212M-680R	68	±20%	120	2.19	1.91	M680
SIS1212M-820R	82	±20%	140	1.88	1.65	M820
SIS1212M-101R	100	±20%	160	1.70	1.53	M101
SIS1212M-121R	120	±20%	170	1.56	1.30	M121
SIS1212M-151R	150	±20%	230	1.43	1.21	M151
SIS1212M-181R	180	±20%	290	1.24	1.06	M181
SIS1212M-221R	220	±20%	400	1.20	0.96	M221
SIS1212M-271R	270	±20%	460	1.00	0.89	M271
SIS1212M-331R	330	±20%	510	0.97	0.78	M331
SIS1212M-391R	390	±20%	690	0.85	0.68	M391
SIS1212M-471R	470	±20%	770	0.80	0.64	M471
SIS1212M-561R	560	±20%	860	0.70	0.62	M561
SIS1212M-681R	680	±20%	1200	0.68	0.55	M681
SIS1212M-821R	820	±20%	1340	0.60	0.51	M821
SIS1212M-102R	1000	±20%	1530	0.50	0.43	M102

Notes:

1. Ordering Information: SIS1212a - bbbRc.

SIS1212 = Product Type.

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

bbb = Inductance value in uH (i.e. 470 = 47uH; 471 = 470uH; 102 = 1000uH).

R = Internal Control Code.

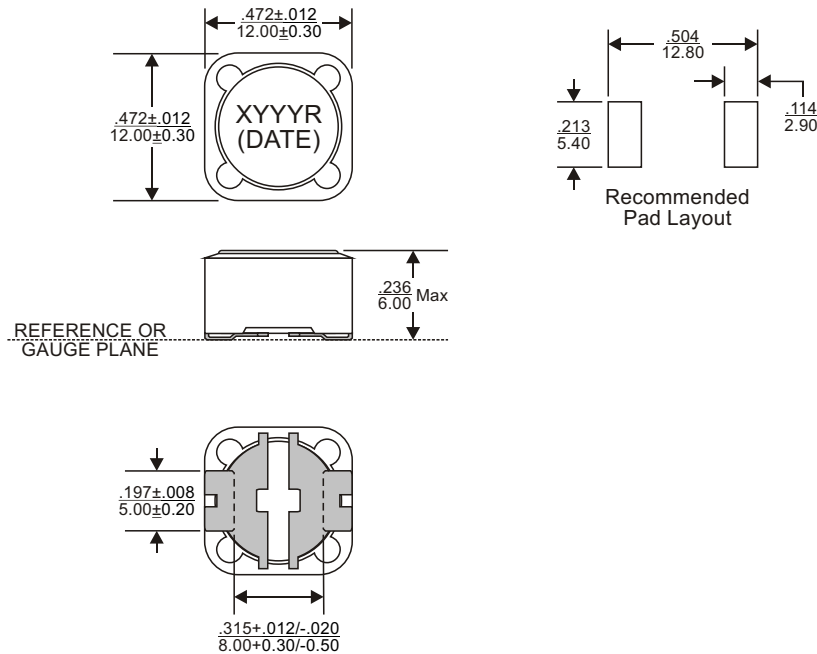
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

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

3. Saturation current, Isat, is the current at which the inductance of the component drops by 10% typical.



MECHANICAL DIMENSIONS

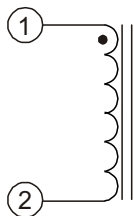


Notes:

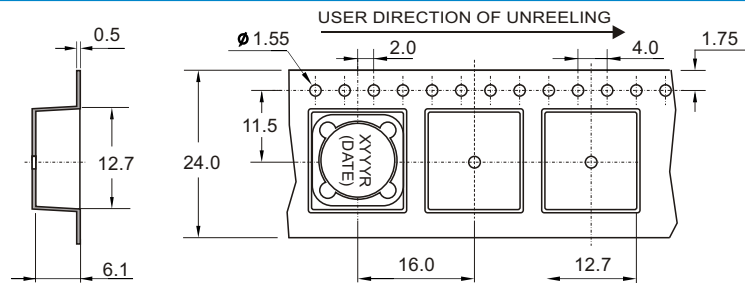
- Rated current, Irated, is the current required to raise the component temperature by approximately 40°C.
- Operating temperature range: -40°C to +125°C.
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating 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 $\pm \frac{.010}{.25}$.

Weight (in gram)	: 3.5 typ.
Tape & Reel	: 600 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER

1/F., Harbour View 1, No.12 Science Park East Avenue,
Phase II, Hong Kong Science Park, Shatin, N.T.

Hong Kong

Tel: (852) 2954 3333 Fax: (852) 2954 3304

Email: eempl@eleceltek.com

Website: <http://www.eleceltek.com> / www.eemagnetic.com

Information herein is for reference only and subject to change without notice. It does not constitute any representation, warranty or commitment of the company in respect of the products in any aspect. All logos, brands and product names mentioned herein are trademarks or registered trademarks of their respective owners. The company does not assume any liability arising out of the application or use of any product or circuit described herein. Copyrights 2009, E & E Magnetic Products Limited.