






-  Magnetically Shielded
-  Low DCR and High breakdown voltage
-  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 Ls (uH)	Inductance Tolerance M	Q Min.	Test ³ Frequency (kHz)	SRF (MHz) Typ.	DCR ()	Rated Current, I _{rms} (A) Max ⁴	Marking (YYY)
SISDS1608M-152F	1.5	±20%	30	200	125	.045	2.8	152
SISDS1608M-222F	2.2	±20%	40	200	120	.050	1.8	222
SISDS1608M-332F	3.3	±20%	40	200	120	.055	1.6	332
SISDS1608M-472F	4.7	±20%	40	200	105	.060	1.4	472
SISDS1608M-682F	6.8	±20%	40	200	50	.065	1.2	682
SISDS1608M-882F	8.2	±20%	40	200	42	.070	1.1	882
SISDS1608M-103F	10	±20%	40	200	38	.075	1.0	103
SISDS1608M-153F	15	±20%	40	100	33	.090	0.80	153
SISDS1608M-223F	22	±20%	40	100	25	.11	0.70	223
SISDS1608M-333F	33	±20%	40	100	20	.19	0.60	333
SISDS1608M-473F	47	±20%	40	100	20	.23	0.50	473
SISDS1608M-683F	68	±20%	40	100	15	.29	0.40	683
SISDS1608M-104F	100	±20%	40	100	10	.48	0.30	104
SISDS1608M-154F	150	±20%	40	100	9	.59	0.26	154
SISDS1608M-224F	220	±20%	40	100	6	.77	0.22	224
SISDS1608M-334F	330	±20%	40	100	5	1.4	0.20	334
SISDS1608M-474F	470	±20%	40	100	4	1.8	0.19	474
SISDS1608M-684F	680	±20%	40	100	3	2.2	0.18	684
SISDS1608M-105F	1000	±20%	40	100	2	3.4	0.15	105
SISDS1608M-155F	1500	±20%	50	100	2	4.2	0.12	155
SISDS1608M-225F	2200	±20%	50	100	2	8.5	0.10	225
SISDS1608M-335F	3300	±20%	50	100	1	11.0	0.08	335
SISDS1608M-475F	4700	±20%	50	100	1	13.9	0.06	475
SISDS1608M-685F	6800	±20%	50	100	1	25.0	0.04	685
SISDS1608M-106F	10000	±20%	50	100	0.8	32.8	0.02	106

Notes:

1. Ordering Information: SISDS1608a - bbbFc.

SISDS1608 = Product Type.

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

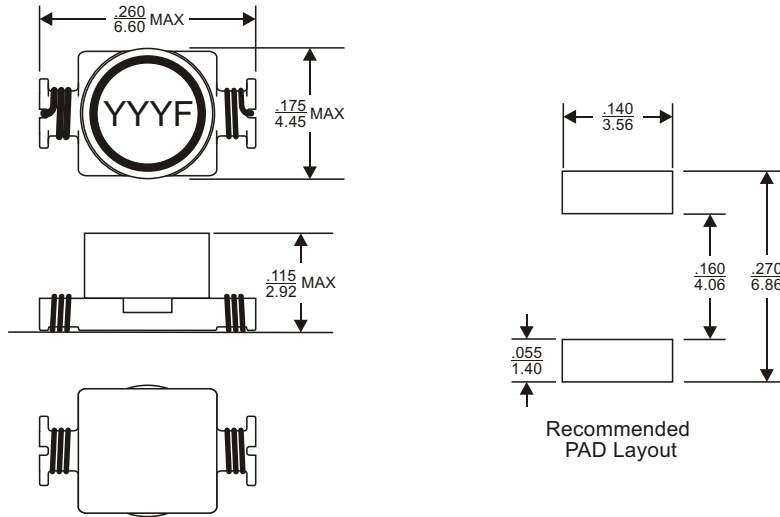
bbb = Inductance value in uH (i.e. 152 = 1.5uH; 153 = 15uH; 154 = 150uH; 155 = 1500uH; 106 = 10000uH).

F = Internal Control Code.

c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).



MECHANICAL DIMENSIONS

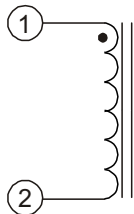


Notes:

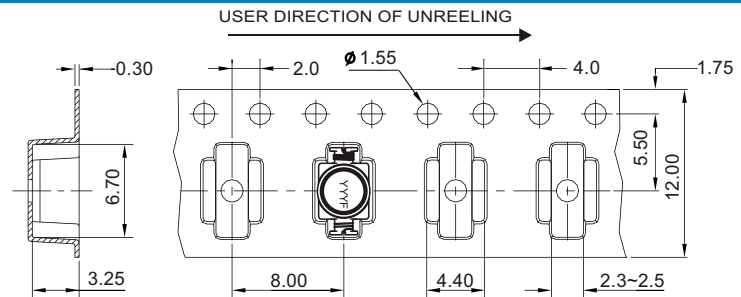
2. Inductance is tested at 100kHz, 0.1Vrms.
3. Test frequency is specified as the frequency for measuring Q value.
4. Rated current, I_{rms} is the current required to raise the part temperature by approximately 30 C.
5. Operating temperature range: -40°C to +125°C.
6. The part temperature (ambient temperature + 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.
7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 0.6 typ.
Tape & Reel	: 1200 / 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.