




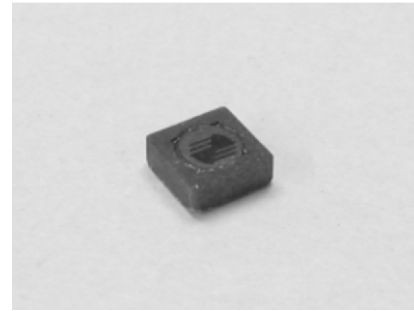


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



**ELECTRICAL SPECIFICATION @ 25°C**

Part Number	Rated <sup>5</sup> Inductance (uH) Typ	Inductance <sup>2</sup> (uH ±20%)	Test Frequency (kHz)	I <sub>rms</sub> <sup>4</sup> (A)	I <sub>sat</sub> <sup>3</sup> (A)	DCR ( Typ)	Volt- Sec <sup>5</sup> Typ.	Marking XYYY
SISSD12M-R47F	0.47	0.49	100	3.19	3.86	24.6m	1.67	Mr47
SISSD12M-1R2F	1.20	1.21	100	2.62	2.45	36.6m	2.62	M1R2
SISSD12M-1R5F	1.50	1.69	100	2.19	2.08	52.1m	3.09	M1R5
SISSD12M-2R2F	2.20	2.25	100	1.83	1.80	74.7m	3.57	M2R2
SISSD12M-3R3F	3.30	3.61	100	1.55	1.42	104.3m	4.52	M3R3
SISSD12M-4R7F	4.70	4.41	100	1.46	1.29	117.7m	5.00	M4R7
SISSD12M-6R2F	6.20	6.25	100	1.21	1.08	169.9m	5.95	M6R2
SISSD12M-8R2F	8.20	8.41	100	1.021	0.931	239.9m	6.90	M8R2
SISSD12M-100F	10.0	10.89	100	0.938	0.818	284.4m	7.85	M100
SISSD12M-150F	15.0	15.21	100	0.782	0.692	408.9m	9.28	M150
SISSD12M-220F	22.0	22.09	100	0.628	0.574	633.8m	11.19	M220
SISSD12M-330F	33.0	32.49	100	0.519	0.474	928.9m	13.57	M330
SISSD12M-470F	47.0	47.61	100	0.428	0.391	1.37	16.42	M470
SISSD12M-680F	68.0	68.89	100	0.341	0.325	2.16	19.75	M680
SISSD12M-820F	82.0	82.81	100	0.326	0.297	2.36	21.66	M820
SISSD12M-101F	100	98.00	100	0.308	0.273	2.64	23.56	M101
SISSD12M-151F	150	151.3	100	0.251	0.220	3.96	29.27	M151
SISSD12M-221F	220	222.0	100	0.229	0.181	4.76	35.46	M221
SISSD12M-331F	330	334.9	100	0.186	0.148	7.25	43.55	M331
SISSD12M-471F	470	462.3	100	0.167	0.126	8.95	51.17	M471
SISSD12M-681F	680	670.8	100	0.149	0.104	11.30	61.64	M681
SISSD12M-821F	820	800.9	100	0.129	0.095	14.93	67.35	M821
SISSD12M-102F	1000	992.3	100	0.121	0.086	17.20	74.97	M102

**Notes:**

1. Ordering Information: SISSD12a - bbbF<sub>c</sub>.

SISSD12 = Product Type.

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

bbb = Inductance value in uH (i.e. R47=0.47uH; 4R7 = 4.7uH; 470 = 47uH; 471 = 470uH; 102 = 1000uH).

F = Internal Control Code.

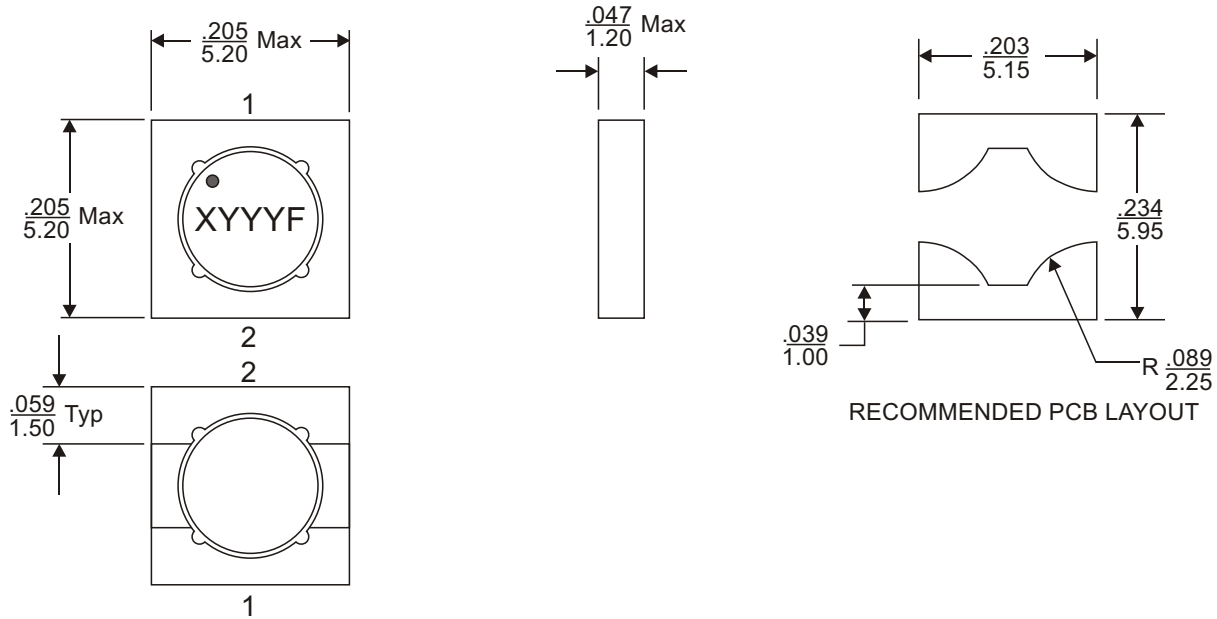
c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).

2. Inductance is tested at 0.25V<sub>rms</sub>, 100kHz.

3. Saturation current, I<sub>sat</sub>, indicates the value of DC current when the inductance is 30% typical lower than its initial value.



**MECHANICAL DIMENSIONS**



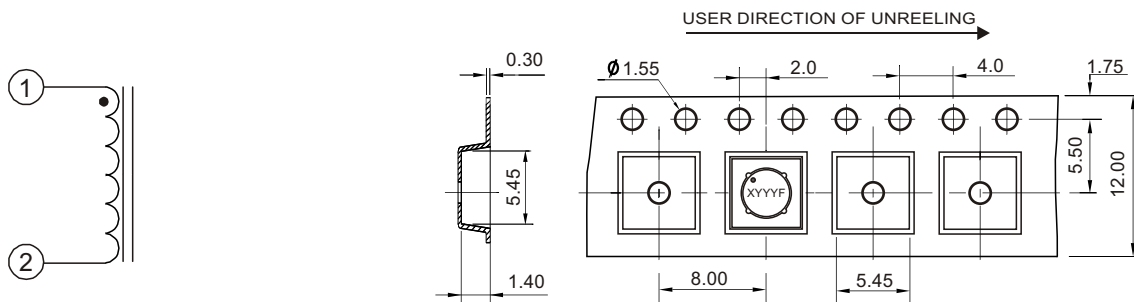
**Notes:**

4. Heating current,  $I_{rms}$ , is the value of current when the temperature rising  $T=40^{\circ}C$  typical.
5. Rated inductance and volt-uSec are for reference only.
6. Operating temperature range:  $-40^{\circ}C$  to  $+125^{\circ}C$ .
7. 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.
8. All dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in mm.
9. Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ .

Weight (in gram)	: 1.2 typ.
Tape & Reel	: 1000 / 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](http://www.eemagnetic.com)

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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