




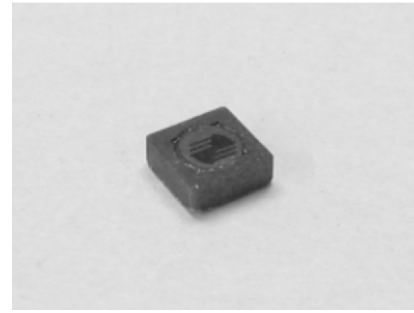


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Rated ⁵ Inductance (uH) Typ	Inductance (uH ±20%)	Test Frequency ² (kHz)	I _{rms} ⁴ (A)	I _{sat} ³ (A)	DCR (Typ)	Volt- Sec ⁵ Typ.	Marking (YYYY)
SISSD25M-R47F	0.47	0.466	100	3.88	6.00	17.7m	1.46	MR47
SISSD25M-R82F	0.82	0.77	100	3.58	4.67	20.8m	1.87	MR82
SISSD25M-1R2F	1.20	1.15	100	3.33	3.81	24.0m	2.29	M1R2
SISSD25M-1R5F	1.50	1.61	100	3.12	3.23	27.4m	2.70	M1R5
SISSD25M-2R2F	2.20	2.14	100	2.93	2.80	31.1m	3.12	M2R2
SISSD25M-3R3F	3.30	3.43	100	2.64	2.21	38.4m	3.95	M3R3
SISSD25M-4R7F	4.70	5.03	100	2.39	1.83	46.7m	4.78	M4R7
SISSD25M-6R8F	6.80	6.93	100	2.19	1.56	55.6m	5.62	M6R8
SISSD25M-8R2F	8.20	7.99	100	1.92	1.45	72.4m	6.03	M8R2
SISSD25M-100F	10.0	10.35	100	1.80	1.27	82.4m	6.86	M100
SISSD25M-150F	15.0	14.45	100	1.67	1.08	95.6m	8.11	M150
SISSD25M-220F	22.0	22.81	100	1.34	0.857	147.8m	10.19	M220
SISSD25M-330F	33.0	33.07	100	1.11	0.711	214.9m	12.27	M330
SISSD25M-470F	47.0	47.89	100	0.919	0.592	315.6m	14.77	M470
SISSD25M-680F	68.0	68.64	100	0.741	0.482	485.0m	17.68	M680
SISSD25M-820F	82.0	82.17	100	0.713	0.441	524.2m	19.34	M820
SISSD25M-101F	100	100.79	100	0.670	0.398	593.7m	21.42	M101
SISSD25M-151F	150	148.4	100	0.553	0.328	872.3m	26.00	M151
SISSD25M-221F	220	222.4	100	0.446	0.268	1.34	31.82	M221
SISSD25M-331F	330	332.2	100	0.359	0.219	2.07	38.90	M331
SISSD25M-471F	470	472.4	100	0.293	0.184	3.10	46.38	M471
SISSD25M-681F	680	677.2	100	0.262	0.154	3.88	55.54	M681
SISSD25M-821F	820	826.7	100	0.230	0.139	5.04	61.36	M821
SISSD25M-102F	1000	1003.4	100	0.216	0.126	5.70	67.60	M102

Notes:

1. Ordering Information: SISSD25a - bbbFc.

SISSD25 = 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.

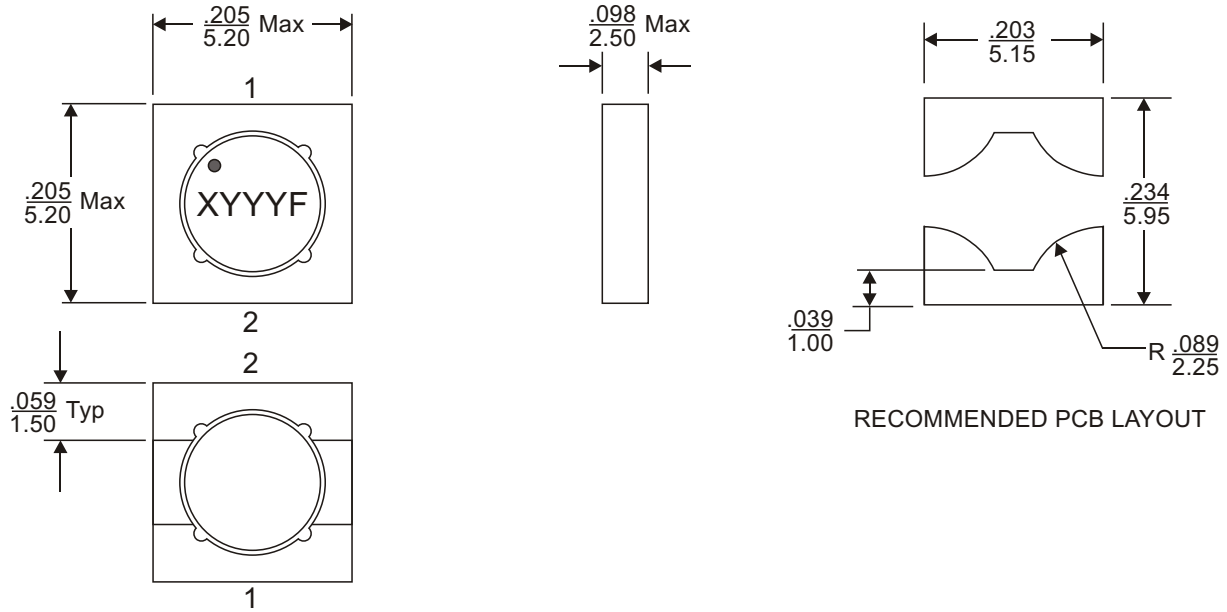
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

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

3. Saturation current, I_{sat}, indicates the value of DC current when the inductance is 30% typical lower than its initial value.



MECHANICAL DIMENSIONS

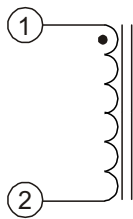


Notes:

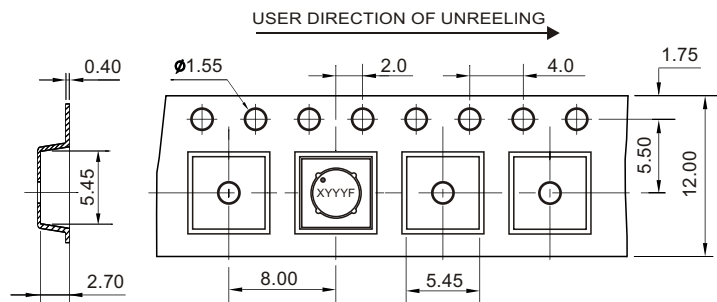
4. Heating current, I_{rms} , is the value of current when the temperature rising $T=40^{\circ}C$ typical.
5. Rated inductance and volt-uSec are for reference only.
6. Operating temperature range: $-40^{\circ}C$ to $+125^{\circ}C$.
7. The part temperature (ambient temperature + temperature rise) should 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)	: 2.0 typ.
Tape & Reel	: 2900 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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