




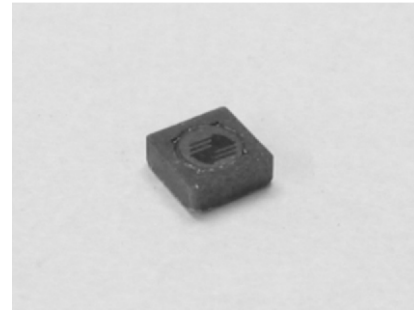


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



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)
SISSD20M-R47F	0.47	0.49	100	3.59	4.00	20m	1.46	MR47
SISSD20M-1R2F	1.20	1.21	100	3.07	2.55	27.5m	2.29	M1R2
SISSD20M-1R5F	1.50	1.69	100	2.88	2.15	31.2m	2.70	M1R5
SISSD20M-2R2F	2.20	2.25	100	2.45	1.87	42.9m	3.12	M2R2
SISSD20M-3R3F	3.30	3.61	100	2.17	1.47	54.7m	3.95	M3R3
SISSD20M-4R7F	4.70	4.41	100	2.05	1.33	61.2m	4.37	M4R7
SISSD20M-6R2F	6.20	6.25	100	1.89	1.12	72m	5.20	M6R2
SISSD20M-8R2F	8.20	8.41	100	1.61	0.966	100m	6.03	M8R2
SISSD20M-100F	10.0	9.61	100	1.53	0.903	110m	6.45	M100
SISSD20M-150F	15.0	15.21	100	1.25	0.718	165.5m	8.11	M150
SISSD20M-220F	22.0	22.09	100	1.12	0.596	205.3m	9.78	M220
SISSD20M-330F	33.0	32.49	100	0.913	0.491	310m	11.86	M330
SISSD20M-470F	47.0	47.61	100	0.745	0.406	465m	14.35	M470
SISSD20M-680F	68.0	68.89	100	0.610	0.337	694.7m	17.26	M680
SISSD20M-820F	82.0	82.81	100	0.576	0.308	778.5m	18.93	M820
SISSD20M-101F	100	98.01	100	0.495	0.283	1.06	20.59	M101
SISSD20M-151F	150	151.3	100	0.435	0.228	1.37	25.58	M151
SISSD20M-221F	220	222.0	100	0.356	0.188	2.04	30.99	M221
SISSD20M-331F	330	327.6	100	0.294	0.155	2.99	37.65	M331
SISSD20M-471F	470	470.9	100	0.263	0.129	3.74	45.14	M471
SISSD20M-681F	680	681.2	100	0.216	0.107	5.56	54.29	M681
SISSD20M-821F	820	823.7	100	0.204	0.098	6.22	59.70	M821
SISSD20M-102F	1000	1004.9	100	0.172	0.088	8.73	65.94	M102

Notes:

1. Ordering Information: SISSD20a - bbbFc.

SISSD20 = 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.

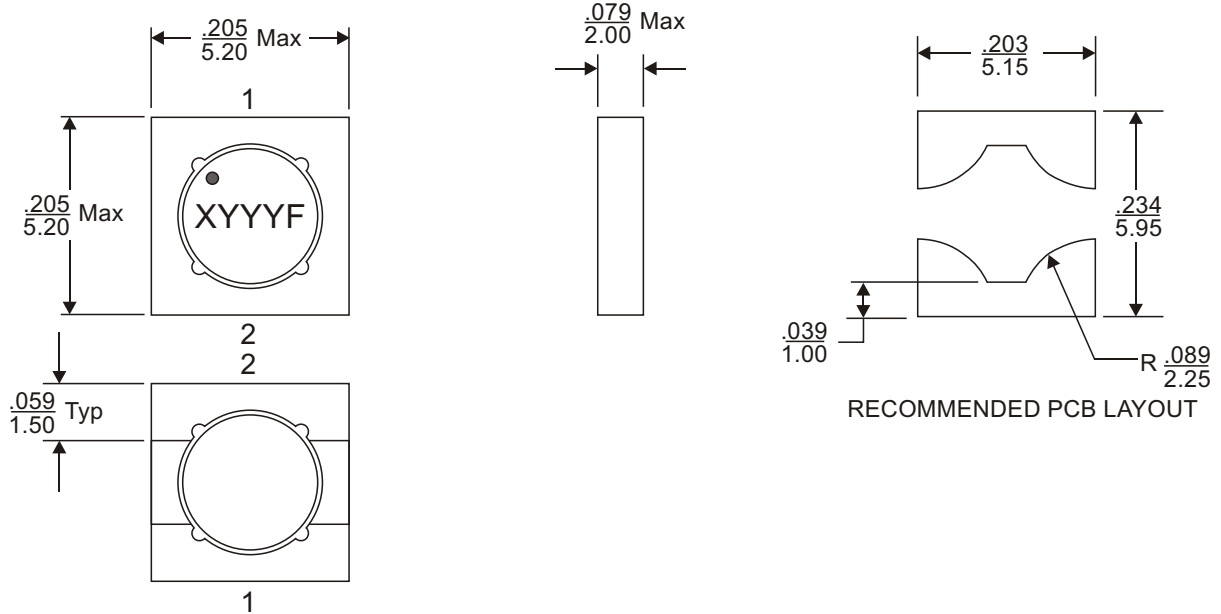
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Inductance is tested at 0.25V_{rms}, 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

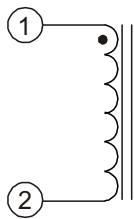


Notes:

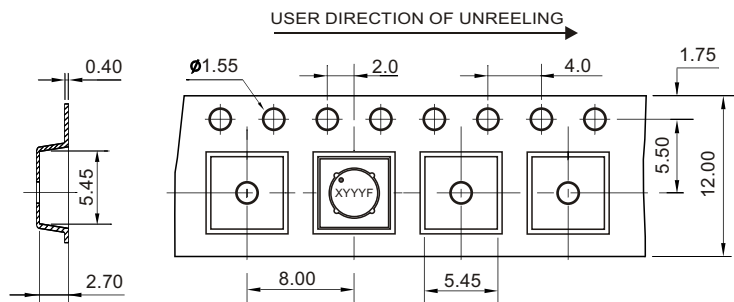
4. Heating current, I_{rms} , is the value of current when the temperature rising $T=40^{\circ}C$ typical.
5. Rated inductance and volt-uSec are for reference only.
6. Operating temperature range: $-40^{\circ}C$ to $+125^{\circ}C$.
7. The part temperature (ambient temperature + temperature rise) should 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)	: 1.8 typ.
Tape & Reel	: 2900 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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