




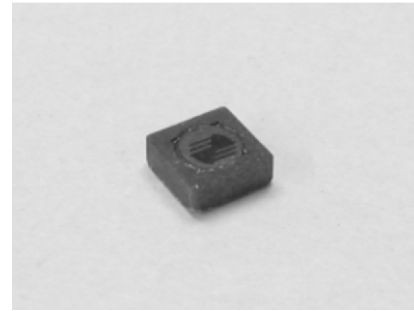


-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant



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 (XYYY)
SISSD18M-R47F	0.47	0.49	100	3.58	4.63	20.1m	1.62	MR47
SISSD18M-R82F	0.82	0.81	100	3.24	3.60	24.7m	2.09	MR82
SISSD18M-1R2F	1.20	1.21	100	2.97	2.95	29.4m	2.55	M1R2
SISSD18M-1R5F	1.50	1.69	100	2.73	2.49	34.5m	3.02	M1R5
SISSD18M-2R2F	2.20	2.25	100	2.55	2.16	39.8m	3.48	M2R2
SISSD18M-3R3F	3.30	3.61	100	2.07	1.71	60.5m	4.41	M3R3
SISSD18M-4R7F	4.70	4.41	100	1.77	1.54	82.4m	4.87	M4R7
SISSD18M-6R2F	6.20	6.25	100	1.61	1.30	100m	5.80	M6R2
SISSD18M-8R2F	8.20	8.41	100	1.38	1.12	135.1m	6.73	M8R2
SISSD18M-100F	10.0	10.89	100	1.28	0.982	158.4m	7.66	M100
SISSD18M-150F	15.0	15.21	100	1.06	0.831	227.8m	9.05	M150
SISSD18M-220F	22.0	22.09	100	0.876	0.689	336.6m	10.90	M220
SISSD18M-330F	33.0	32.49	100	0.715	0.568	505.7m	13.22	M330
SISSD18M-470F	47.0	47.61	100	0.578	0.470	773.2m	16.01	M470
SISSD18M-680F	68.0	68.89	100	0.514	0.390	979.8m	19.26	M680
SISSD18M-820F	82.0	82.81	100	0.446	0.356	1.30	21.11	M820
SISSD18M-101F	100	102.01	100	0.419	0.321	1.47	23.43	M101
SISSD18M-151F	150	151.29	100	0.345	0.263	2.18	28.54	M151
SISSD18M-221F	220	222.01	100	0.296	0.217	2.95	34.57	M221
SISSD18M-331F	330	334.89	100	0.248	0.177	4.20	42.46	M331
SISSD18M-471F	470	479.61	100	0.201	0.148	6.39	50.81	M471
SISSD18M-681F	680	681.21	100	0.167	0.124	9.28	60.55	M681
SISSD18M-821F	820	823.69	100	0.145	0.113	12.35	66.58	M821
SISSD18M-102F	1000	1004	100	0.136	0.102	14.01	73.54	M102

Notes:

1. Ordering Information: SISSD18a - bbbFc.

SISSD18 = 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.

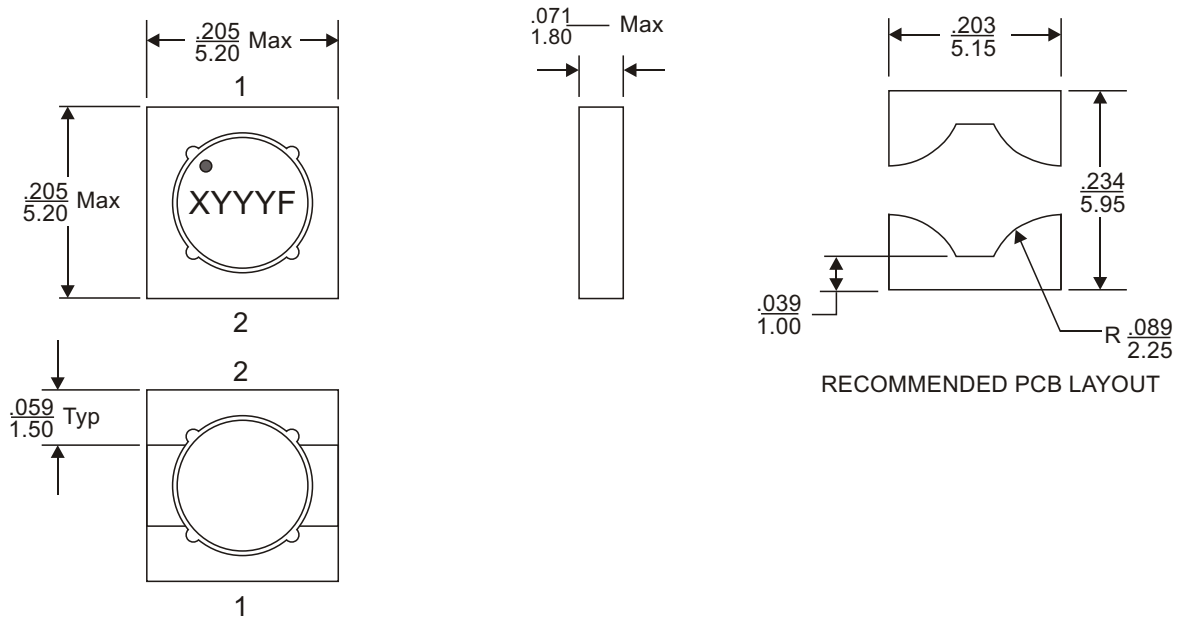
c = Packaging Code (U = Tape & Reel Packaging in 7 inch Reel).

2. Inductance is tested at 0.25V_{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



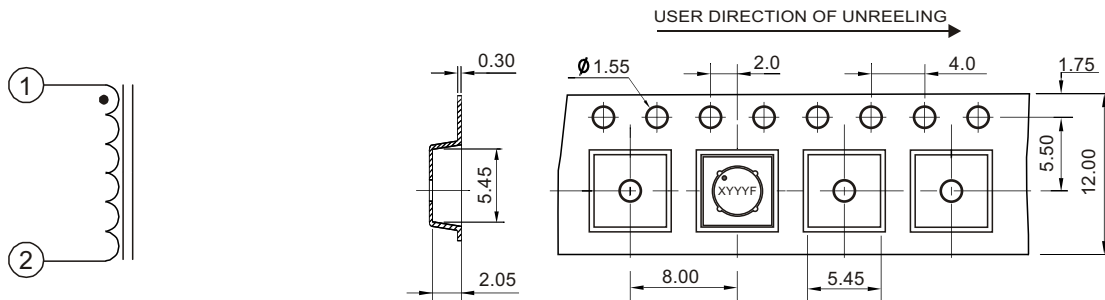
Notes:

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)	: 1.5 typ.
Tape & Reel	: 1000 / reel

SCHEMATIC

PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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