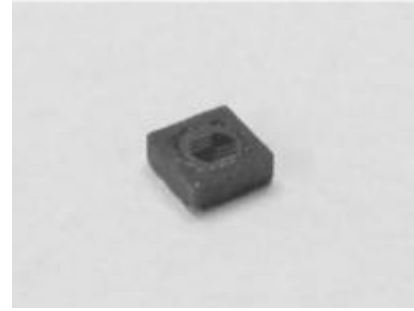




-  Magnetically Shielded
-  Miniature in size and high energy storage
-  Ideal for high current requirements of notebook, video recorders and other DC-DC conversion applications
-  Custom inductance value or tolerance is available
-  RoHS compliant versions are available



ELECTRICAL SPECIFICATION @ 25°C

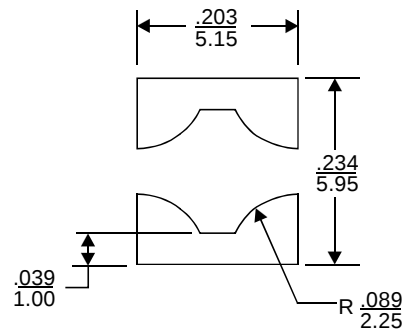
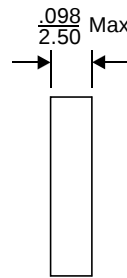
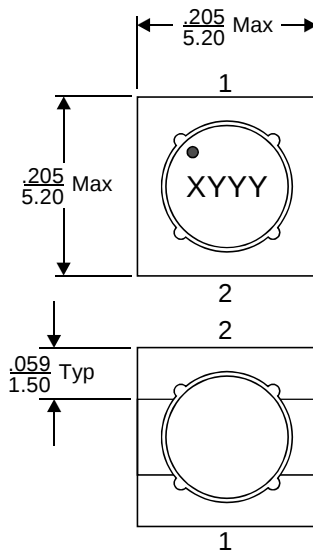
Part Number	RoHS Part Number	Rated Inductance ⁴ (uH) Typ	Inductance (uH ±20%)	Test Frequency ¹ (kHz)	I _{rms} ³ (A)	I _{sat} ² (A)	DCR (Ω Typ)	Volt-μSec ⁴ Typ.	Marking (XYYY)
SISSD25M-R47	SISSD25M-R47F	0.47	0.466	100	3.88	6.00	17.7m	1.46	MR47
SISSD25M-R82	SISSD25M-R82F	0.82	0.77	100	3.58	4.67	20.8m	1.87	MR82
SISSD25M-1R2	SISSD25M-1R2F	1.20	1.15	100	3.33	3.81	24.0m	2.29	M1R2
SISSD25M-1R5	SISSD25M-1R5F	1.50	1.61	100	3.12	3.23	27.4m	2.70	M1R5
SISSD25M-2R2	SISSD25M-2R2F	2.20	2.14	100	2.93	2.80	31.1m	3.12	M2R2
SISSD25M-3R3	SISSD25M-3R3F	3.30	3.43	100	2.64	2.21	38.4m	3.95	M3R3
SISSD25M-4R7	SISSD25M-4R7F	4.70	5.03	100	2.39	1.83	46.7m	4.78	M4R7
SISSD25M-6R8	SISSD25M-6R8F	6.80	6.93	100	2.19	1.56	55.6m	5.62	M6R8
SISSD25M-8R2	SISSD25M-8R2F	8.20	7.99	100	1.92	1.45	72.4m	6.03	M8R2
SISSD25M-100	SISSD25M-100F	10.0	10.35	100	1.80	1.27	82.4m	6.86	M100
SISSD25M-150	SISSD25M-150F	15.0	14.45	100	1.67	1.08	95.6m	8.11	M150
SISSD25M-220	SISSD25M-220F	22.0	22.81	100	1.34	0.857	147.8m	10.19	M220
SISSD25M-330	SISSD25M-330F	33.0	33.07	100	1.11	0.711	214.9m	12.27	M330
SISSD25M-470	SISSD25M-470F	47.0	47.89	100	0.919	0.592	315.6m	14.77	M470
SISSD25M-680	SISSD25M-680F	68.0	68.64	100	0.741	0.482	485.0m	17.68	M680
SISSD25M-820	SISSD25M-820F	82.0	82.17	100	0.713	0.441	524.2m	19.34	M820
SISSD25M-101	SISSD25M-101F	100	100.79	100	0.670	0.398	593.7m	21.42	M101
SISSD25M-151	SISSD25M-151F	150	148.4	100	0.553	0.328	872.3m	26.00	M151
SISSD25M-221	SISSD25M-221F	220	222.4	100	0.446	0.268	1.34	31.82	M221
SISSD25M-331	SISSD25M-331F	330	332.2	100	0.359	0.219	2.07	38.90	M331
SISSD25M-471	SISSD25M-471F	470	472.4	100	0.293	0.184	3.10	46.38	M471
SISSD25M-681	SISSD25M-681F	680	677.2	100	0.262	0.154	3.88	55.54	M681
SISSD25M-821	SISSD25M-821F	820	826.7	100	0.230	0.139	5.04	61.36	M821
SISSD25M-102	SISSD25M-102F	1000	1003.4	100	0.216	0.126	5.70	67.60	M102



Notes:

1. Inductance is tested at 0.25Vrms, 100kHz.
2. Saturation current, Isat, indicates the value of DC current when the inductance is 30% typical lower than its initial value.
3. Heating current, Irms, is the value of current when the temperature rising $\Delta T=40^{\circ}\text{C}$ typical.
4. Rated inductance and volt-uSec are for reference only.
5. Operating temperature range: -40°C to $+85^{\circ}\text{C}$.
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. Contact EEMPL for RoHS compliant version availability.

MECHANICAL DIMENSIONS



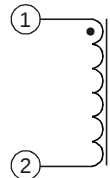
RECOMMENDED PCB LAYOUT

Weight (in gram)	: 2.0 typ.
Tape & Reel	: 2900 / reel

Notes:

8. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
9. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.
10. For available RoHS part number, the part will be marked with "YYYYF", instead of "YYYY".

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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