



-  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



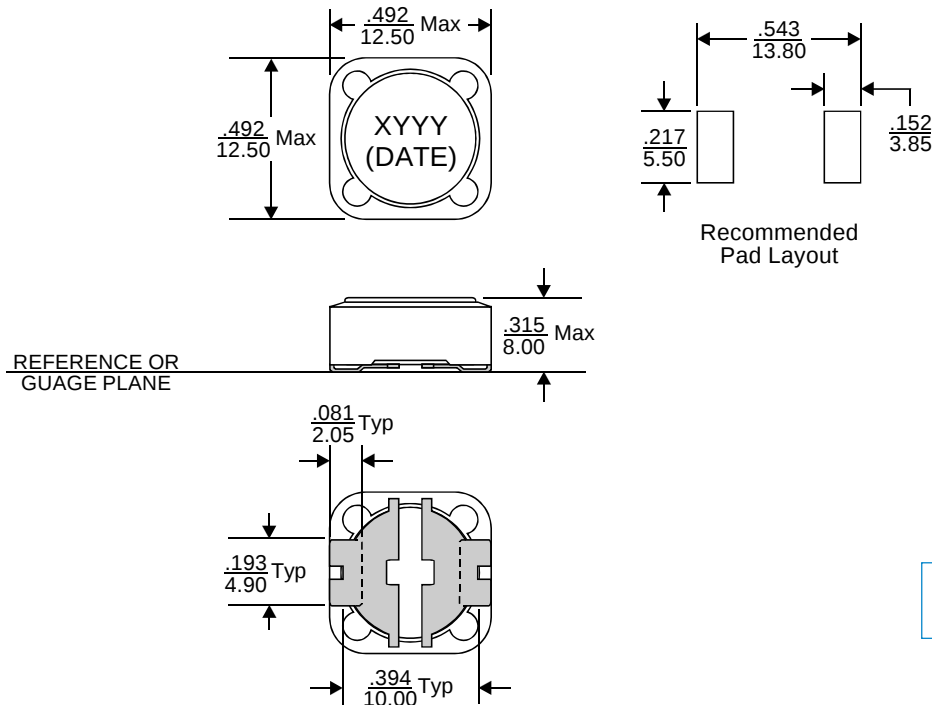
ELECTRICAL SPECIFICATION @ 25°C								
Part Number	RoHS Part Number	Inductance ¹ (uH)	Inductance Tolerance	DCR (mΩ Typ)	Isat ² (A)	Irms ³ (A)	Volt-μSec Typ.	Marking (YYYY)
SISDR127M-R47	SISDR127M-R47R	0.419	±20%	1.81	56.0	18.6	3.50	MR47
SISDR127M-1R0	SISDR127M-1R0R	0.821	±20%	2.47	40.0	15.9	4.90	M1R0
SISDR127M-1R5	SISDR127M-1R5R	1.357	±20%	3.27	31.1	13.8	6.30	M1R5
SISDR127M-2R2	SISDR127M-2R2R	2.027	±20%	3.88	25.5	12.7	7.70	M2R2
SISDR127M-3R3	SISDR127M-3R3R	2.831	±20%	5.67	21.5	10.5	9.10	M3R3
SISDR127M-4R7	SISDR127M-4R7R	4.841	±20%	9.17	16.5	8.25	11.9	M4R7
SISDR127M-6R8	SISDR127M-6R8R	7.387	±20%	11.6	13.3	7.34	14.7	M6R8
SISDR127M-8R2	SISDR127M-8R2R	8.861	±20%	15.7	12.2	6.32	16.1	M8R2
SISDR127M-100	SISDR127M-100R	10.47	±20%	17.2	11.2	6.04	17.5	M100
SISDR127M-150	SISDR127M-150R	14.09	±20%	24.7	9.66	5.03	20.3	M150
SISDR127M-220	SISDR127M-220R	22.93	±20%	39.1	7.57	4.00	25.9	M220
SISDR127M-330	SISDR127M-330R	33.92	±20%	60.0	6.22	3.23	31.5	M330
SISDR127M-470	SISDR127M-470R	47.05	±20%	71.9	5.28	2.95	37.1	M470
SISDR127M-680	SISDR127M-680R	66.48	±20%	105	4.44	2.44	44.1	M680
SISDR127M-820	SISDR127M-820R	79.75	±20%	143	4.06	2.09	48.3	M820
SISDR127M-101	SISDR127M-101R	99.31	±20%	163	3.64	1.96	53.9	M101
SISDR127M-151	SISDR127M-151R	144.9	±20%	247	3.01	1.59	65.1	M151
SISDR127M-221	SISDR127M-221R	221.5	±20%	376	2.43	1.29	80.5	M221
SISDR127M-331	SISDR127M-331R	323.6	±20%	574	2.01	1.04	97.3	M331
SISDR127M-471	SISDR127M-471R	467.1	±20%	861	1.68	0.85	117	M471
SISDR127M-681	SISDR127M-681R	676.7	±20%	1080	1.39	0.76	141	M681
SISDR127M-821	SISDR127M-821R	818.1	±20%	1470	1.27	0.65	155	M821
SISDR127M-102	SISDR127M-102R	1005	±20%	1660	1.14	0.61	172	M102

Notes:

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



MECHANICAL DIMENSIONS

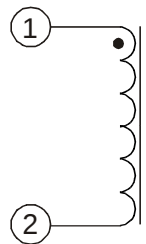


Weight (in gram)	: 4.0 typ.
Tape & Reel	: 400 / reel

Notes:

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

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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