



**MSR  
Electronics**



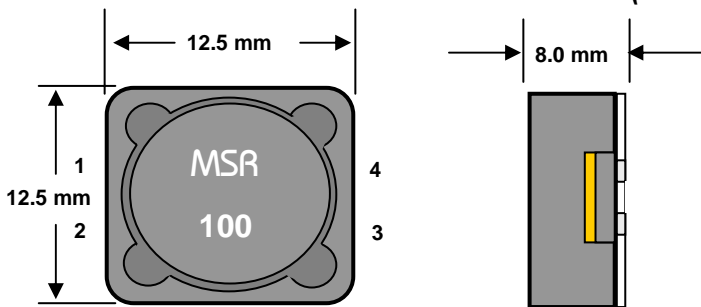
**RoHS**



Compliant: Contact  
Factory for Copy of  
Test Report

## SHIELDED SMD INDUCTORS/TRANSFORMERS

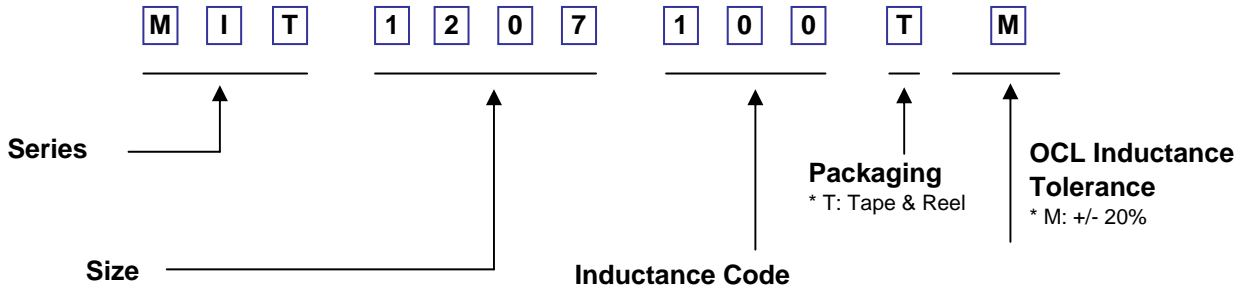
**MIT SERIES (Shielded)**



### FEATURES:

- Solder Heat Resistance: 240 \*C, 30 seconds
- Dimensions = mm MAX
- Temp Rise = 40 \*C @ Irms
- Operating Temp = -40 to +125 \*C Max
- Spec Ratings are at 20 \*C
- Dual Windings: Series or Parallel
- OCL = x @ 100KHz, 0.25 Vrms, 0.0 Adc
- Turns Ratio = (1-2):(3-4) 1:1
- Hipot = 200 Vac between windings

### PART NUMBER SYSTEM

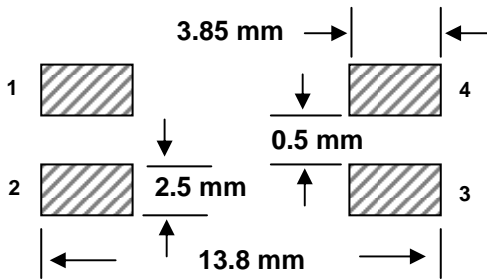


Part Number	Inductance Rating (uH)	Parallel Ratings (1,2 - 4,2)				Series Ratings (1-4) tie (2-3)				V/ u-Sec P or S
		OCL (uH)	Irms (A)	Isat (A)	DCR Ohms	OCL (uH)	Irms (A)	Isat (A)	DCR Ohms	
MIT1207-R47TM	0.47	0.419	17.9	56.0	0.0096	1.676	8.94	28.0	0.0078	3.50/7.00
MIT1207-1R0TM	1.00	0.821	15.5	40.0	0.0026	3.284	7.74	20.0	0.0104	4.90/9.80
MIT1207-1R5TM	1.50	1.357	13.5	31.1	0.0034	5.428	6.77	15.6	0.0137	6.30/12.6
MIT1207-2R2TM	2.20	2.027	12.5	25.5	0.0038	8.108	6.23	12.7	0.0161	7.70/15.4
MIT1207-3R3TM	3.30	2.831	10.4	21.5	0.0057	11.32	5.23	10.8	0.0229	9.10/18.2
MIT1207-4R7TM	4.70	4.841	8.25	16.5	0.0092	19.36	4.13	8.24	0.0367	11.9/23.8
MIT1207-6R8TM	6.80	7.387	7.34	13.3	0.0116	29.55	3.67	6.67	0.0465	14.7/29.4
MIT1207-8R2TM	8.20	8.861	6.32	12.2	0.0157	35.44	3.16	6.09	0.0627	16.1/32.2
MIT1207-100TM	10.0	10.47	6.04	11.2	0.0172	41.88	3.02	5.60	0.0686	17.5/35.0
MIT1207-150TM	15.0	14.09	5.03	9.66	0.0247	56.36	2.51	4.83	0.0990	20.3/40.6
MIT1207-220TM	22.0	22.93	4.00	7.57	0.0391	91.72	2.00	3.78	0.1570	25.9/51.8
MIT1207-330TM	33.0	33.92	3.23	6.22	0.0600	135.7	1.61	3.11	0.2410	31.5/63.0
MIT1207-470TM	47.0	47.05	2.95	5.28	0.0719	188.2	1.47	2.64	0.2880	37.1/74.2

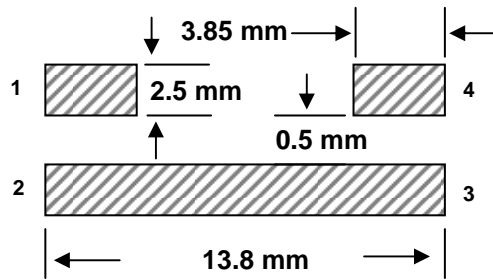
Part Number	Inductance Rating (uH)	Parallel Ratings (1,2 - 4,2)				Series Ratings (1-4) tie (2-3)				V/ u-sec P or S
		OCL (uH)	Irms (A)	Isat (A)	DCR Ohms	OCL (uH)	Irms (A)	Isat (A)	DCR Ohms	
MIT1207-680TM	68.0	66.48	2.44	4.44	0.1050	265.9	1.22	2.22	0.4210	44.1/88.2
MIT1207-820TM	82.0	79.75	2.09	4.06	0.1430	319.0	1.04	2.03	0.5730	48.3/96.6
MIT1207-101TM	100	99.31	1.96	3.64	0.1630	397.2	0.98	1.82	0.6530	53.9/107.8
MIT1207-151TM	150	144.9	1.59	3.01	0.2470	579.6	0.80	1.51	0.9890	65.1/130.2
MIT1207-221TM	220	221.5	1.29	2.43	0.3760	886.0	0.65	1.22	1.5000	80.5/161
MIT1207-331TM	330	323.6	1.04	2.01	0.5740	1294	0.53	1.01	2.3000	97.3/195
MIT1207-471TM	470	467.1	0.85	1.68	0.8610	1868	0.43	0.84	2.4400	117/234
MIT1207-681TM	680	676.7	0.76	1.39	1.0800	2707	0.38	0.70	4.3200	141/282
MIT1207-821TM	820	818.1	0.65	1.27	1.4700	3272	0.32	0.63	5.8800	155/310
MIT1207-102TM	1000	1005	0.61	1.14	1.6600	4020	0.30	0.57	6.6400	172/344

## GENERAL PARAMETERS: Layout, Schematic, Packaging

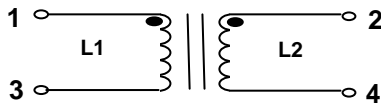
### Solder Pad Layout Dual Inductor Mode



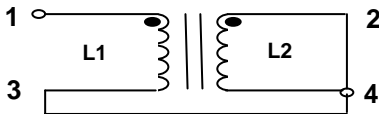
### Solder Pad Layout Series Mode



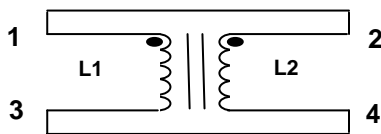
#### SCHEMATIC - Dual Inductor



#### SCHEMATIC - Series Mode



#### SCHEMATIC - Parallel Mode



#### PACKAGING

