



**MSR
Electronics**



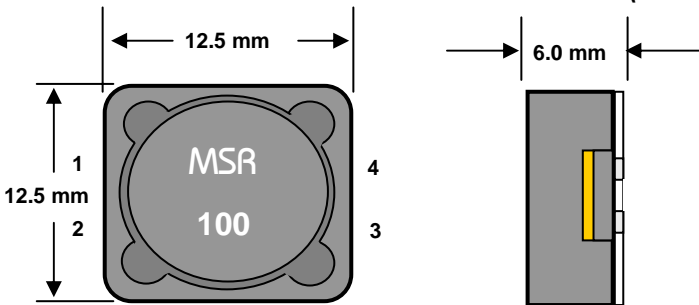
RoHS



Compliant: Contact
Factory for Copy of
Test Report

SHIELDED SMD INDUCTORS/TRANSFORMERS

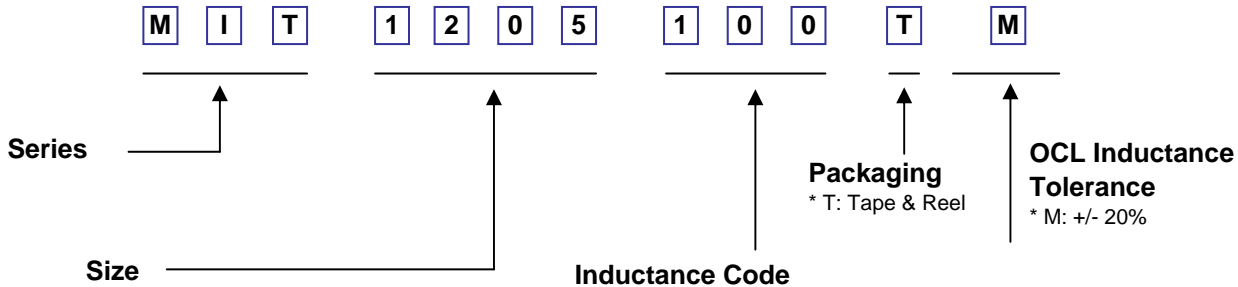
MIT SERIES (Shielded)



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

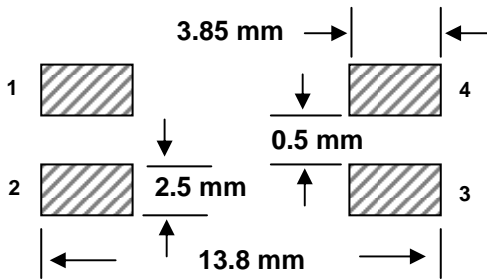


Part Number	Inductance Rating (uH)	Parallel Ratings (1,2 - 4,2)				Series Ratings (1-4) tie (2-3)				V/ u-Sec P or S
		OCL (uH)	Irms (A)	Isat (A)	DCR Ohms	OCL (uH)	Irms (A)	Isat (A)	DCR Ohms	
MIT1205-R47TM	0.47	0.456	17.6	33.0	0.0018	1.824	8.80	16.5	0.0078	3.17/6.34
MIT1205-1R0TM	1.00	0.894	15.0	23.6	0.0024	3.576	7.51	11.8	0.0096	4.43/8.86
MIT1205-1R5TM	1.50	1.478	13.8	18.3	0.0029	5.912	6.89	9.15	0.0114	5.70/11.4
MIT1205-2R2TM	2.20	2.208	10.9	15.0	0.0045	8.832	5.46	7.50	0.0182	6.97/13.9
MIT1205-3R3TM	3.30	3.084	9.25	12.7	0.0063	12.34	4.63	6.35	0.0253	8.23/16.5
MIT1205-4R7TM	4.70	5.274	7.18	9.71	0.0105	21.10	3.59	4.86	0.0420	10.8/21.6
MIT1205-6R8TM	6.80	6.588	6.64	8.68	0.0123	26.35	3.32	4.34	0.0492	12.0/24.0
MIT1205-8R2TM	8.20	8.048	5.54	7.86	0.0176	32.19	2.77	3.93	0.0705	13.3/26.6
MIT1205-100TM	10.0	9.654	5.35	7.17	0.0189	38.62	2.67	3.59	0.0757	14.6/29.2
MIT1205-150TM	15.0	15.35	4.27	5.69	0.0298	61.40	2.13	2.85	0.1200	18.4/36.8
MIT1205-220TM	22.0	22.36	3.70	4.71	0.0396	89.44	1.84	2.36	0.1590	22.2/44.4
MIT1205-330TM	33.0	33.74	3.28	3.84	0.0505	135.0	1.64	1.92	0.2030	27.2/54.4
MIT1205-470TM	47.0	47.47	2.71	3.24	0.0740	189.9	1.35	1.62	0.2970	32.3/64.6

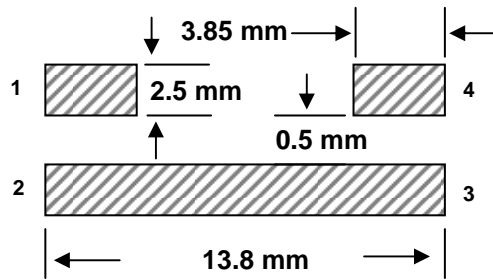
Part Number	Inductance Rating (uH)	Parallel Ratings (1,2 - 4,2)				Series Ratings (1-4) tie (2-3)				V/ u-sec P or S
		OCL (uH)	I _{rms} (A)	I _{sat} (A)	DCR (Ohms)	OCL (uH)	I _{rms} (A)	I _{sat} (A)	DCR (Ohms)	
MIT1205-680TM	68.0	67.91	2.22	2.70	0.1010	271.6	1.11	1.35	0.4400	38.6/77.2
MIT1205-820TM	82.0	86.89	2.05	2.39	0.1280	347.6	1.03	1.20	0.5150	43.7/87.4
MIT1205-101TM	100	102.7	1.78	2.20	0.1700	410.8	0.892	1.10	0.6820	47.5/95.0
MIT1205-151TM	150	151.1	1.48	1.81	0.2480	604.4	0.739	0.905	0.9910	57.6/115.2
MIT1205-221TM	220	216.8	1.19	1.51	0.3840	867.2	0.594	0.755	1.5400	69.0/138
MIT1205-331TM	330	332.6	1.06	1.22	0.4820	1330	0.530	0.610	1.9300	85.5/171
MIT1205-471TM	470	473.1	0.87	1.02	0.7180	1892	0.434	0.510	2.8700	102/204
MIT1205-681TM	680	679.8	0.70	0.85	1.1000	2719	0.350	0.425	4.4200	122/244
MIT1205-821TM	820	828.0	0.60	0.77	1.4900	3312	0.301	0.385	5.9600	137/270
MIT1205-102TM	1000	1008	0.57	0.70	1.6900	4032	0.283	0.350	6.7600	149/298

GENERAL PARAMETERS: Layout, Schematic, Packaging

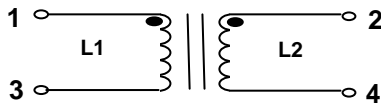
Solder Pad Layout Dual Inductor Mode



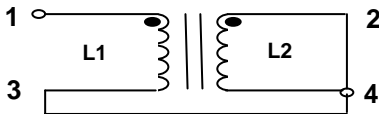
Solder Pad Layout Series Mode



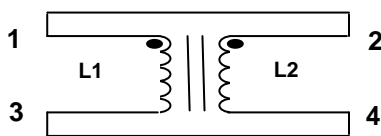
SCHEMATIC - Dual Inductor



SCHEMATIC - Series Mode



SCHEMATIC - Parallel Mode



PACKAGING

