

## GCDM Series



● **Features:**

- 1:1 transformer
- Double inductor with two identical windings
- 4 different sizes available
- Recommended solder profile: Reflow
- Custom designs on request
- High power, High saturation inductors
- With magnetically shielded against radiation
- Directly connected electrode on ferrite core

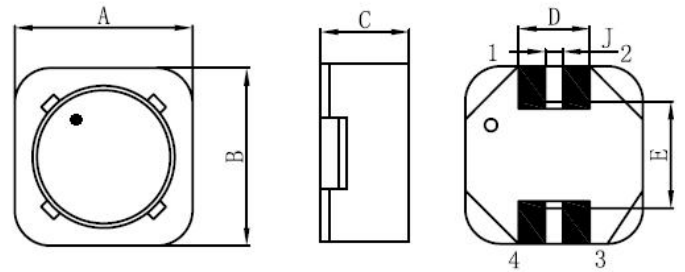
● **Applications**

- For SEPIC and CUK typologies flyback applications
- Switching regulators with second, unregulated output voltages Notebook, Desktop, Modem equipment
- LCD,OA equipment other electronic equipment

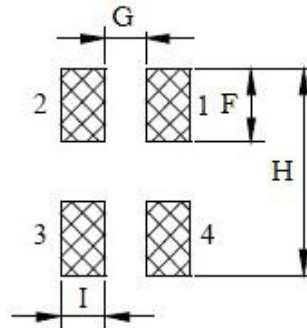
● **Operating temperature: -40 °C to +125 °C**

TYPE	A	B	C	D	E	J	F	G	H	I
GCDM73	7.3±0.3	7.3±0.3	3.55Max	2.7	4.0	1.0	1.73	0.40	7.90	1.0
GCDM74	7.3±0.3	7.3±0.3	4.45Max	2.7	4.0	1.0	1.73	0.40	7.90	1.0
GCDM125	12.2±0.4	12.2±0.4	6.0Max	4.9	7.3	1.5	3.85	0.50	13.8	2.50
GCDM127	12.2±0.4	12.2±0.4	8.0Max	4.9	7.3	1.5	3.85	0.50	13.8	2.50

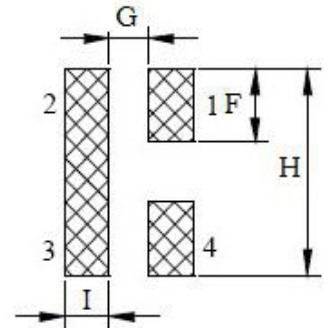
● **Dimensions and Land Patterns. (UNIT: mm)**



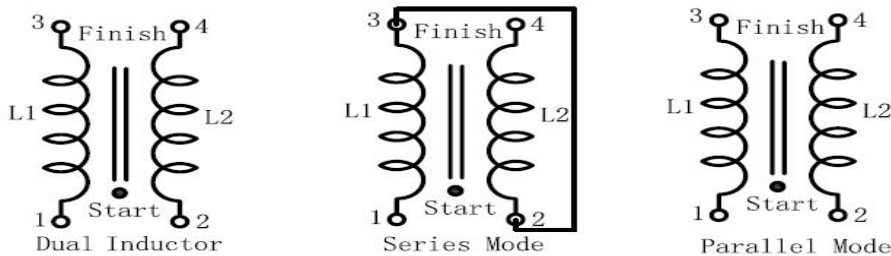
**Dual inductor Mode**



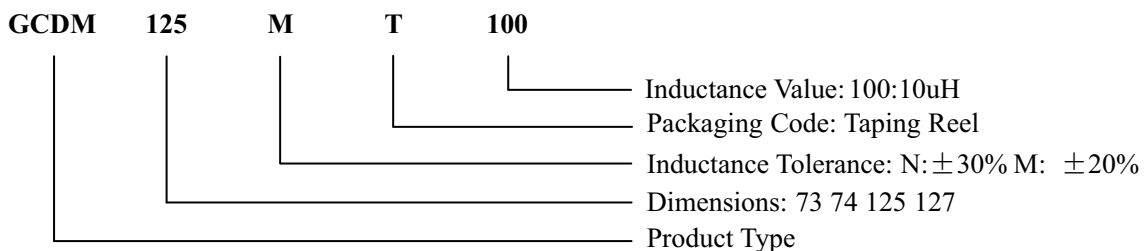
**Series Mode**



● **Schematic Diagram**



● **Part Numbering**



## Electrical characteristics List

### GCDM73 Series

PART No.	L	Parallel Ratings				Series Ratings			
	( $\mu\text{H}$ )	L $\mu\text{H}$	RDC $\Omega$	Isat A	Irms A	L $\mu\text{H}$	RDC $\Omega$	Isat A	Irms A
GCDM73MTR33	0.33	0.306	0.0074	14.4	6.19	1.224	0.0296	7.18	3.10
GCDM73MT1R0	1.0	0.992	0.0103	7.97	5.25	3.968	0.0411	3.99	2.63
GCDM73MT1R5	1.5	1.482	0.0132	6.52	4.64	5.928	0.0527	3.26	2.32
GCDM73MT2R2	2.2	2.070	0.0167	5.52	4.11	8.280	0.0669	2.76	2.06
GCDM73MT3R3	3.3	3.540	0.0259	4.22	3.31	14.16	0.1035	2.11	1.66
GCDM73MT4R7	4.7	4.422	0.0297	3.78	3.09	17.69	0.1188	1.89	1.55
GCDM73MT6R8	6.8	6.480	0.0435	3.12	2.55	25.92	0.1742	1.56	1.28
GCDM73MT8R2	8.2	8.930	0.0592	2.66	2.19	35.72	0.2368	1.33	1.10
GCDM73MT100	10	10.30	0.0656	2.47	2.08	41.20	0.2623	1.24	1.01
GCDM73MT150	15	15.01	0.0844	2.05	1.83	60.04	0.339	1.03	0.916
GCDM73MT220	22	22.65	0.107	1.67	1.62	90.60	0.429	0.83	0.811
GCDM73MT330	33	34.41	0.166	1.35	1.31	137.6	0.665	0.68	0.653
GCDM73MT470	47	48.62	0.241	1.14	1.08	194.5	0.965	0.57	0.542
GCDM73MT680	68	68.91	0.358	0.96	0.89	275.6	1.43	0.48	0.444
GCDM73MT820	82	80.37	0.384	0.89	0.86	321.5	1.54	0.44	0.430
GCDM73MT101	100	101.4	0.527	0.79	0.73	405.6	2.11	0.39	0.367
GCDM73MT151	150	150.9	0.851	0.65	0.58	603.6	3.41	0.32	0.289
GCDM73MT221	220	223.3	1.05	0.53	0.52	893.2	4.20	0.27	0.260
GCDM73MT331	330	325.5	1.59	0.44	0.42	1302	6.36	0.22	0.211
GCDM73MT471	470	465.8	2.36	0.37	0.35	1863	9.44	0.18	0.173
GCDM73MT681	680	676.5	3.47	0.31	0.29	2706	13.88	0.15	0.143
GCDM73MT821	820	821.7	3.93	0.28	0.27	3287	15.72	0.14	0.134
GCDM73MT102	1000	995.0	4.34	0.25	0.26	3980	17.36	0.13	0.128

## Electrical characteristics List

### GCDM74 Series

PART No.	L	Parallel Ratings				Series Ratings			
	( $\mu$ H)	L $\mu$ H	RDC $\Omega$	Isat A	Irms A	L $\mu$ H	RDC $\Omega$	Isat A	Irms A
GCDM74MTR33	0.33	0.294	0.0074	18.4	6.20	1.176	0.0295	9.18	3.10
GCDM74MT1R0	1.0	0.952	0.0100	10.2	5.33	3.808	0.0400	5.10	2.66
GCDM74MT1R5	1.5	1.422	0.0115	8.35	4.96	5.688	0.0461	4.17	2.48
GCDM74MT2R2	2.2	1.986	0.0130	7.06	4.66	7.944	0.0521	3.53	2.33
GCDM74MT3R3	3.3	3.396	0.0183	5.40	3.94	13.58	0.0732	2.70	1.97
GCDM74MT4R7	4.7	5.182	0.0254	4.37	3.34	20.73	0.102	2.19	1.67
GCDM74MT6R8	6.8	7.344	0.0418	3.67	2.60	29.38	0.167	1.84	1.30
GCDM74MT8R2	8.2	8.566	0.0441	3.40	2.53	34.26	0.177	1.70	1.27
GCDM74MT100	10	9.882	0.0489	3.17	2.41	39.53	0.196	1.58	1.20
GCDM74MT150	15	16.09	0.0637	2.48	2.11	64.36	0.255	1.24	1.05
GCDM74MT220	22	21.73	0.0925	2.13	1.75	86.92	0.371	1.07	0.874
GCDM74MT330	33	33.01	0.143	1.73	1.41	132.0	0.574	0.87	0.702
GCDM74MT470	47	49.64	0.216	1.41	1.15	198.6	0.865	0.71	0.573
GCDM74MT680	68	69.67	0.265	1.19	1.03	278.7	1.06	0.60	0.517
GCDM74MT820	82	80.95	0.345	1.11	0.91	323.8	1.38	0.55	0.453
GCDM74MT101	100	101.6	0.383	0.99	0.86	406.4	1.53	0.49	0.430
GCDM74MT151	150	150.0	0.591	0.81	0.69	600.0	2.37	0.41	0.346
GCDM74MT221	220	227.0	0.907	0.66	0.56	908.0	3.63	0.33	0.279
GCDM74MT331	330	335.6	1.41	0.54	0.45	1342	5.66	0.27	0.224
GCDM74MT471	470	465.3	1.74	0.46	0.40	1861	6.97	0.23	0.202
GCDM74MT681	680	671.2	2.58	0.38	0.33	2685	10.3	0.19	0.166
GCDM74MT821	820	812.7	2.93	0.35	0.31	3251	11.7	0.17	0.156
GCDM74MT102	1000	1009.0	3.89	0.31	0.27	4036	15.6	0.16	0.135

## Electrical characteristics List

### GCDM125 Series

PART No.	L	Parallel Ratings				Series Ratings			
	( $\mu$ H)	L $\mu$ H	RDC $\Omega$	Isat A	Irms A	L $\mu$ H	RDC $\Omega$	Isat A	Irms A
GCDM125MTR47	0.47	0.456	0.0018	33.0	17.6	1.824	0.0078	16.5	8.80
GCDM125MT1R0	1.00	0.894	0.0024	23.6	15.0	3.576	0.0960	11.8	7.51
GCDM125MT1R5	1.50	1.478	0.0029	18.3	13.8	5.912	0.0114	9.15	6.89
GCDM125MT2R2	2.20	2.208	0.0045	15.0	10.9	8.832	0.0182	7.50	5.46
GCDM125MT3R3	3.30	3.084	0.0063	12.7	9.26	12.34	0.0253	6.35	4.63
GCDM125MT4R7	4.70	5.274	0.0105	9.71	7.18	21.10	0.0420	4.86	3.59
GCDM125MT6R8	6.80	6.588	0.0123	8.68	6.64	26.35	0.0492	4.34	3.32
GCDM125MT8R2	8.20	8.048	0.0176	7.86	5.54	32.19	0.0705	3.93	2.77
GCDM125MT100	10.0	9.654	0.0189	7.17	5.35	38.62	0.0757	3.59	2.67
GCDM125MT150	15.0	15.35	0.0298	5.69	4.27	61.40	0.120	2.85	2.13
GCDM125MT220	22.0	22.36	0.0396	4.71	3.70	89.44	0.159	2.36	1.84
GCDM125MT330	33.0	33.74	0.0505	3.84	3.28	135.0	0.203	1.92	1.64
GCDM125MT470	47.0	47.47	0.0740	3.24	2.71	189.9	0.297	1.62	1.35
GCDM125MT680	68.0	67.91	0.101	2.70	2.22	271.6	0.440	1.35	1.11
GCDM125MT820	82.0	86.89	0.128	2.39	2.05	347.6	0.515	1.20	1.03
GCDM125MT101	100	102.7	0.170	2.20	1.78	410.8	0.682	1.10	0.892
GCDM125MT151	150	151.1	0.248	1.81	1.48	604.4	0.991	0.905	0.739
GCDM125MT221	220	216.8	0.384	1.51	1.19	867.2	1.54	0.755	0.594
GCDM125MT331	330	332.6	0.482	1.22	1.06	1330	1.93	0.610	0.530
GCDM125MT471	470	473.1	0.718	1.02	0.87	1892	2.87	0.510	0.434
GCDM125MT681	680	679.8	1.10	0.85	0.70	2719	4.42	0.425	0.350
GCDM125MT821	820	828.0	1.49	0.77	0.60	3312	5.96	0.385	0.301
GCDM125MT102	1000	1008	1.69	0.70	0.57	4032	6.76	0.350	0.283

## Electrical characteristics List

### GCDM127 Series

PART No.	L	Parallel Ratings				Series Ratings			
	( $\mu$ H)	L $\mu$ H	RDC $\Omega$	Isat A	Irms A	L $\mu$ H	RDC $\Omega$	Isat A	Irms A
GCDM127MTR47	0.47	0.419	0.00195	56.0	17.9	1.676	0.0078	28	8.94
GCDM127MT1R0	1.0	0.821	0.00261	40.0	15.5	3.284	0.0104	20	7.74
GCDM127MT1R5	1.5	1.357	0.00341	31.1	13.5	5.428	0.0137	15.6	6.77
GCDM127MT2R2	2.2	2.027	0.00373	25.5	12.5	8.108	0.0161	12.7	6.23
GCDM127MT3R3	3.3	2.831	0.00567	21.5	10.4	11.32	0.0229	10.8	5.23
GCDM127MT4R7	4.7	4.841	0.00917	16.5	8.25	19.36	0.0367	8.24	4.13
GCDM127MT6R8	6.8	7.387	0.0116	13.3	7.34	29.55	0.0465	6.67	3.67
GCDM127MT8R2	8.2	8.861	0.0157	12.2	6.32	35.44	0.0627	6.09	3.16
GCDM127MT100	10	10.47	0.0172	11.2	6.04	41.88	0.0686	5.60	3.02
GCDM127MT150	15	14.09	0.0247	9.66	5.03	56.36	0.0990	4.83	2.51
GCDM127MT220	22	22.93	0.0391	7.57	4.00	91.72	0.157	3.78	2.00
GCDM127MT330	33	33.92	0.0600	6.22	3.23	135.7	0.241	3.11	1.61
GCDM127MT470	47	47.05	0.0719	5.28	2.95	188.2	0.288	2.64	1.47
GCDM127MT680	68	66.48	0.105	4.44	2.44	265.9	0.421	2.22	1.22
GCDM127MT820	82	79.75	0.143	4.06	2.09	319.0	0.573	2.03	1.04
GCDM127MT101	100	99.31	0.163	3.64	1.96	397.2	0.653	1.82	0.98
GCDM127MT151	150	144.9	0.247	3.01	1.59	579.6	0.989	1.51	0.796
GCDM127MT221	220	221.5	0.376	2.43	1.29	886.0	1.50	1.22	0.645
GCDM127MT331	330	323.6	0.574	2.01	1.04	1294	2.30	1.01	0.522
GCDM127MT471	470	467.1	0.861	1.68	0.85	1868	3.44	0.838	0.427
GCDM127MT681	680	676.7	1.08	1.39	0.76	2707	4.32	0.697	0.380
GCDM127MT821	820	818.1	1.47	1.27	0.65	3272	5.88	0.633	0.325
GCDM127MT102	1000	1005	1.66	1.14	0.61	4020	6.64	0.571	0.307