

TDRM Series (Rev. 1.0)

TDRM Series (Rev. 1.0)



Features

- * RoHS compliant
- * Available in magnetic shielding
- * Low DC resistance
- * Suitable for large currents
- * Ideal for DC-DC converter inductor applications

Product Identification

TDRM 127 - 150 M
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 15uH
4. Tolerance: K=±10%, M=±20%, N=±30%

Applications

- * DC/DC converters, etc
- * Power supply for VTRs
- * OA equipment
- * LCD televisions/ Notebook PCs
- * Portable communication devices

Operating & Storage Condition

- * Operating Temp :Stand Type:-40 to +85°C
- * Storage Temp : Stand Type -40 to +85°C
- * Storage Life Time : 6 Months @20°C,RH 65%

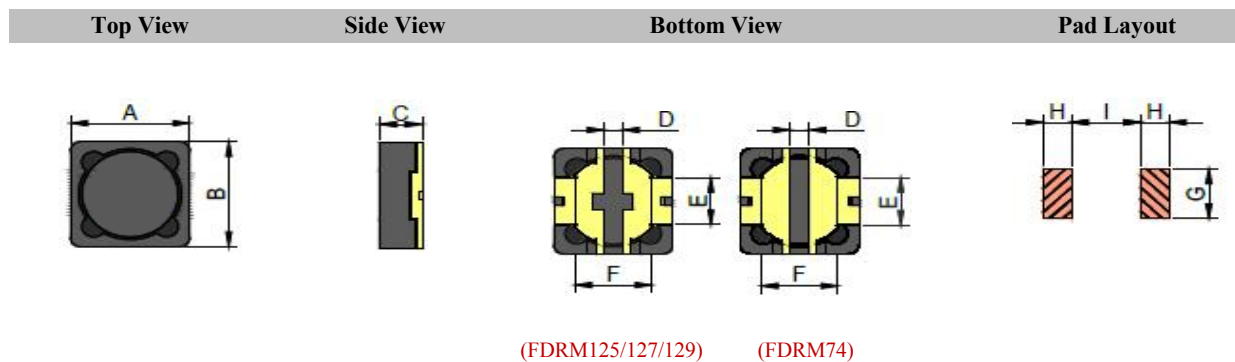
Test Equipment

- * L-WK3260 LCR Meter
- * RDC-Twintex TM8089A
- * IDC-WK3260+3265B DC-Bias
- * Dimension-Mitutoyo
- * Temperature-Tecpel 305A

Standard Atmospheric Conditions

- * Ambient Temp : 20 ± 5°C
- * Relative Humidity : 65 ± 20%

Dimension & Recommended PAD Layout: [mm]



Size Code	A(max.)	B(max.)	C(max.)	D(ref.)	E(±0.3)	F(±0.5)	G(ref.)	H(ref.)	I(ref.)
74	7.8	7.8	4.5	1.3	2.0	4.8	2.4	1.7	4.4
125	12.5	12.5	6.0	1.5	5.0	7.6	5.6	2.8	7.0
127	12.5	12.5	8.0	1.5	5.0	7.6	5.6	2.8	7.0
129	12.5	12.5	10.0	1.5	5.0	7.6	5.6	2.8	7.0



TDRM Series (Rev. 5.0)

TDRM Series (Rev. 1.0)

Electrical Characteristics

P/N	L (uH)	Tolerance	DCR (mΩ) typ.	Isat 1 @L-Drop 10% (A) max.	Isat 2 @L-Drop 35% (A) max.	Irms @ΔT=40°C (A) max.
TDRM74-1R0	1.0	M/N	10.9	9.50	10.50	8.40
TDRM74-1R5	1.5	M/N	12.5	7.90	9.50	7.80
TDRM74-1R8	1.8	M/N	14.1	7.70	8.60	7.30
TDRM74-2R2	2.2	M/N	16.1	6.80	7.50	6.60
TDRM74-2R7	2.7	M/N	18.9	6.30	7.00	6.20
TDRM74-3R3	3.3	M/N	22.2	6.00	6.50	5.80
TDRM74-3R9	3.9	M/N	25.2	5.40	6.00	5.40
TDRM74-4R7	4.7	M/N	27.7	5.00	5.50	5.20
TDRM74-5R6	5.6	M/N	34.8	4.10	5.00	4.80
TDRM74-6R8	6.8	M/N	40.0	3.80	4.50	4.50
TDRM74-8R2	8.2	M/N	48.0	3.60	4.10	4.30
TDRM74-100	10.0	M	55.6	2.55	3.50	4.00
TDRM74-120	12.0	M	63.2	2.50	3.40	3.80
TDRM74-150	15.0	M	79.0	2.40	3.30	3.50
TDRM74-180	18.0	M	97.4	2.10	2.90	3.20
TDRM74-220	22.0	M	114.0	2.00	2.60	3.00
TDRM74-270	27.0	M	123.0	1.90	2.40	2.80
TDRM74-330	33.0	M	152.0	1.65	2.10	2.40
TDRM74-390	39.0	M	164.0	1.55	2.00	2.20
TDRM74-470	47.0	M	200.0	1.50	1.82	2.00
TDRM74-560	56.0	M	250.0	1.35	1.60	1.78
TDRM74-680	68.0	M	290.0	1.25	1.50	1.65
TDRM74-820	82.0	M	290.0	1.10	1.30	1.50
TDRM74-101	100.0	M	490.0	1.00	1.18	1.30
TDRM74-121	120.0	M	600.0	0.90	1.10	1.15
TDRM74-151	150.0	M	770.0	0.75	0.90	1.00
TDRM74-181	180.0	M	860.0	0.74	0.86	0.95
TDRM74-221	220.0	M	1050.0	0.70	0.77	0.85
TDRM74-271	270.0	M	1300.0	0.63	0.70	0.78
TDRM74-331	330.0	M	1620.0	0.59	0.65	0.72
TDRM74-391	390.0	M	2100.0	0.50	0.59	0.65
TDRM74-471	470.0	M	2340.0	0.45	0.54	0.60
TDRM74-561	560.0	M	3000.0	0.42	0.50	0.56
TDRM74-681	680.0	M	3350.0	0.40	0.44	0.48
TDRM74-821	820.0	M	3800.0	0.35	0.40	0.44
TDRM74-102	1000.0	M	5044.0	0.28	0.35	0.38

* Test condition: @ 1KHz/0.25V

* I rms DC current (A) that will cause an approximate ΔT of 40°C.

* Isat DC current (A) that will cause L to drop approximately 10% or 35%.

* Tolerance: M= ±20%, N= ±30%



深圳市长进科技有限公司 SHENZHEN CHANGJIN TECHNOLOGY CO., LTD.

Specifications subject to change without any prior notice due to reasons such as upgrading.

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TDRM Series (Rev. 5.0)

TDRM Series (Rev. 1.0)

Electrical Characteristics

P/N	L (μ H)	Tolerance	DCR (m Ω) typ.	Isat 1 @L-Drop 10% (A) max.	Isat 2 @L-Drop 35% (A) max.	Irms @ Δ T=40 $^{\circ}$ C (A) max.
TDRM125-2R7	2.7	N	5.00	13.00	14.00	9.00
TDRM125-3R3	3.3	M/N	9.70	12.20	13.20	8.20
TDRM125-3R9	3.9	M/N	10.70	11.00	12.20	7.80
TDRM125-4R7	4.7	M/N	11.40	10.50	11.30	7.50
TDRM125-5R6	5.6	M/N	14.00	9.40	10.00	6.70
TDRM125-6R8	6.8	M/N	15.30	8.50	9.30	6.40
TDRM125-8R2	8.2	M/N	16.60	7.50	8.40	6.10
TDRM125-100	10.0	M	18.60	7.00	8.00	5.75
TDRM125-120	12.0	M	21.80	6.60	7.50	5.30
TDRM125-150	15.0	M	24.00	6.00	6.60	5.00
TDRM125-180	18.0	M	29.40	5.40	6.00	4.70
TDRM125-220	22.0	M	33.50	4.80	5.50	4.40
TDRM125-270	27.0	M	40.50	4.50	5.00	4.00
TDRM125-330	33.0	M	50.30	4.00	4.50	3.63
TDRM125-390	39.0	M	62.00	3.50	4.00	3.20
TDRM125-470	47.0	M	69.00	3.30	3.60	3.00
TDRM125-560	56.0	M	83.00	3.00	3.30	2.70
TDRM125-680	68.0	M	98.00	2.75	3.00	2.50
TDRM125-820	82.0	M	116.00	2.40	2.70	2.20
TDRM125-101	100.0	M	143.00	2.30	2.55	1.90
TDRM125-121	120.0	M	166.00	2.00	2.30	1.70
TDRM125-151	150.0	M	211.00	1.85	2.05	1.50
TDRM125-181	180.0	M	246.00	1.65	1.85	1.35
TDRM125-221	220.0	M	293.00	1.50	1.75	1.25
TDRM125-271	270.0	M	380.00	1.38	1.58	1.10
TDRM125-331	330.0	M	460.00	1.25	1.40	1.00
TDRM125-391	390.0	M	550.00	1.15	1.30	0.92
TDRM125-471	470.0	M	660.00	1.05	1.20	0.83
TDRM125-561	560.0	M	770.00	0.98	1.08	0.76
TDRM125-681	680.0	M	950.00	0.88	0.98	0.69
TDRM125-821	820.0	M	1120.00	0.78	0.88	0.64
TDRM125-102	1000.0	M	1550.00	0.68	0.78	0.56

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* Tolerance: M= \pm 20%, N= \pm 30%

TDRM Series (Rev. 5.0)

TDRM Series (Rev. 1.0)

Electrical Characteristics

P/N	L (μ H)	Tolerance	DCR (m Ω) typ.	Isat 1 @L-Drop 10% (A) max.	Isat 2 @L-Drop 35% (A) max.	Irms @ Δ T=40 $^{\circ}$ C (A) max.
TDRM127-1R0	1.0	N	4.50	20.00	21.00	11.00
TDRM127-2R2	2.2	M/N	6.50	19.00	20.00	10.00
TDRM127-3R3	3.3	M/N	7.59	18.00	19.00	9.60
TDRM127-4R7	4.7	M/N	9.75	14.50	16.60	8.20
TDRM127-5R6	5.6	M/N	12.50	13.50	15.00	7.60
TDRM127-6R8	6.8	M/N	13.40	12.70	13.50	7.35
TDRM127-8R2	8.2	M/N	15.40	11.30	12.50	6.50
TDRM127-100	10.0	M	18.70	10.00	11.50	6.10
TDRM127-120	12.0	M	19.60	9.50	10.50	5.50
TDRM127-150	15.0	M	27.50	8.60	9.50	5.00
TDRM127-180	18.0	M	29.70	7.80	8.60	4.80
TDRM127-220	22.0	M	36.60	7.00	7.70	4.60
TDRM127-270	27.0	M	41.90	6.35	7.00	4.20
TDRM127-330	33.0	M	51.60	5.45	6.30	3.80
TDRM127-390	39.0	M	59.70	5.30	6.00	3.50
TDRM127-470	47.0	M	72.00	5.00	5.50	3.10
TDRM127-560	56.0	M	90.00	4.50	5.00	2.90
TDRM127-680	68.0	M	108.00	4.00	4.30	2.70
TDRM127-820	82.0	M	123.00	3.60	4.00	2.50
TDRM127-101	100.0	M	152.00	3.20	3.50	2.20
TDRM127-121	120.0	M	170.00	3.10	3.40	2.00
TDRM127-151	150.0	M	226.00	2.90	3.20	1.80
TDRM127-181	180.0	M	283.00	2.50	2.80	1.60
TDRM127-221	220.0	M	348.00	2.25	2.50	1.45
TDRM127-271	270.0	M	397.00	2.00	2.30	1.30
TDRM127-331	330.0	M	500.00	1.90	2.00	1.20
TDRM127-391	390.0	M	560.00	1.70	1.90	1.10
TDRM127-471	470.0	M	657.00	1.55	1.70	1.00
TDRM127-561	560.0	M	820.00	1.45	1.60	0.90
TDRM127-681	680.0	M	990.00	1.30	1.45	0.80
TDRM127-821	820.0	M	1260.00	1.20	1.30	0.70
TDRM127-102	1000.0	M	1530.00	1.09	1.20	0.60
TDRM127-222	2200.0	K/M	3050.00	0.70	0.80	0.42
TDRM127-332	3300.0	K/M	4250.00	0.45	0.55	0.35

* Test condition: @ 1KHz/0.25V

* Irms DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C.

* Isat DC current (A) that will cause L to drop approximately 10% or 35%.

* Tolerance: K= \pm 10%, M= \pm 20%, N= \pm 30%

TDRM Series (Rev. 1.0)

Electrical Characteristics

P/N	L (uH)	Tolerance	DCR (mΩ) max.	Isat. @L-Drop 25% (A) max.	Irms. @ΔT=40℃ (A) max.
TDRM129-4R7	4.7	M/N	10.0	16.00	10.00
TDRM129-6R8	6.8	M/N	14.0	12.80	8.40
TDRM129-100	10.0	M/N	18.3	11.50	7.50
TDRM129-150	15.0	M/N	28.0	8.60	6.00
TDRM129-330	33.0	M	45.0	5.50	4.20
TDRM129-470	47.0	M	60.0	4.50	3.80
TDRM129-560	56.0	M	70.0	4.00	3.40
TDRM129-680	68.0	M	88.5	3.60	3.20
TDRM129-101	100.0	M	110.0	3.10	2.50
TDRM129-221	220.0	M	270.0	2.50	1.80
TDRM129-271	270.0	M	330.0	2.10	1.60
TDRM129-301	300.0	M	340.0	1.80	1.45
TDRM129-331	330.0	M	340.0	1.80	1.45
TDRM129-681	680.0	M/N	675.0	1.60	1.25
TDRM129-821	820.0	M	1000.0	1.10	0.85

* Test condition: @ 1KHz/0.25V

* I rms DC current (A) that will cause an approximate ΔT of 40°C.

* Isat DC current (A) that will cause L to drop approximately 25%.

* Tolerance: K= ±10%, M= ±20%, N= ±30%

