

TDOS Series (Rev. 1.0)



Help designers significantly longer battery life in handheld communication devices & other portable products. They are designed with a flat top & constructed of heat resistant materials to ensure trouble-free assy. and reflow operations.

Features

- * RoHS compliant
- * High energy storage and very low resistance
- * Smallest size and high performance

Applications

- * Notebook, step-up and step-down converters
- * Flash, memory programmers. Etc

Product Identification

TDOS 0804 - 100 M
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance : 10uH
4. Tolerance: M=±20%

Operating & Storage Condition

- * Operating Temp. : -55 to +125°C
- * Storage Temp. : -25 to +35°C
- * Storage Life Time : 12 Months @25°C, RH 65%

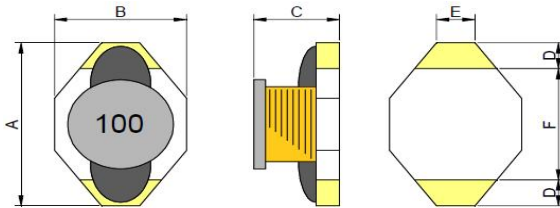
Test Equipment

- * HP4284A, HP42841A-L, IDC, Q.RDC
- * HP8573D Network Analyzer-SRF

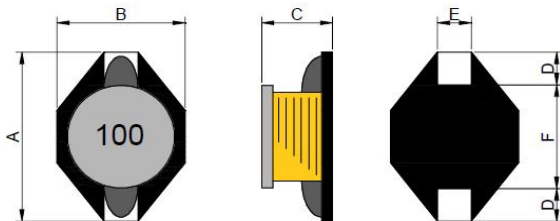
Standard Atmospheric Conditions

- * Ambient Temp : 20+/-15°C
- * Relative Humidity : 65+/-20%

Dimension & Recommended PAD Layout: [mm]



Size Code	A(max.)	B(max.)	C(max.)	D(ref.)	E(ref.)	F(ref.)
0402	6.60	4.45	2.92	1.27	1.02	4.32



Size Code	A(max.)	B(max.)	C(max.)	D(ref.)	E(ref.)	F(ref.)
0804	12.95	9.40	5.10	2.54	2.54	7.62
1306	18.54	15.24	7.62	2.54	2.54	12.70



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Electrical Characteristics

P/N	L (μ H)	DCR (Ω) max.	SRF (MHz) typ.	Q min. @200KHz	IDC (A) max.
TDOS0402-1R0M	1.0	0.040	250.0	30.0	0.20
TDOS0402-1R5M	1.5	0.045	125.0	30.0	0.15
TDOS0402-2R2M	2.2	0.050	120.0	40.0	0.15
TDOS0402-3R3M	3.3	0.055	120.0	40.0	0.15
TDOS0402-4R7M	4.7	0.060	105.0	40.0	0.15
TDOS0402-6R8M	6.8	0.065	50.0	40.0	0.15
TDOS0402-100M	10.0	0.075	38.0	40.0	0.15
TDOS0402-150M	15.0	0.090	33.0	40.0	0.15
TDOS0402-220M	22.0	0.110	25.0	40.0	0.15
TDOS0402-270M	27.0	0.170	23.0	40.0	0.15
TDOS0402-330M	33.0	0.190	20.0	40.0	0.14
TDOS0402-470M	47.0	0.230	20.0	40.0	0.11
TDOS0402-680M	68.0	0.290	15.0	40.0	0.08
TDOS0402-101M	100.0	0.480	10.0	40.0	0.07
TDOS0402-151M	150.0	0.590	9.0	40.0	0.55
TDOS0402-221M	220.0	0.770	6.0	40.0	0.49
TDOS0402-331M	330.0	1.400	5.0	40.0	0.02
TDOS0402-471M	470.0	1.800	4.0	40.0	0.01
TDOS0402-681M	680.0	2.200	3.0	40.0	0.01
TDOS0402-102M	1000.0	3.400	2.0	40.0	0.07

* Test Condition: @100KHz/ 1.0V

* IDC: $\Delta T = 30^{\circ}\text{C}$ rise typ at Irms.

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Electrical Characteristics

P/N	L (uH)	DCR (Ω) max.	SRF (MHz) typ.	Isat (A) typ.	Irms (A) typ.
TDOS0804-1R0M	1.0	0.021	140.0	5.60	5.00
TDOS0804-1R5M	1.5	0.022	120.0	5.20	4.50
TDOS0804-2R2M	2.2	0.032	80.0	5.00	3.80
TDOS0804-3R3M	3.3	0.039	70.0	3.90	3.30
TDOS0804-4R7M	4.7	0.054	40.0	3.20	2.70
TDOS0804-6R8M	6.8	0.075	38.0	2.80	2.20
TDOS0804-100M	10.0	0.101	35.0	2.40	2.00
TDOS0804-150M	15.0	0.150	25.0	2.00	1.50
TDOS0804-220M	22.0	0.207	19.0	1.60	1.30
TDOS0804-330M	33.0	0.334	15.0	1.40	1.10
TDOS0804-470M	47.0	0.472	13.0	1.00	0.80
TDOS0804-680M	68.0	0.660	10.0	0.90	0.70
TDOS0804-101M	100.0	1.110	7.0	0.80	0.60
TDOS0804-151M	150.0	1.550	6.0	0.60	0.50
TDOS0804-221M	220.0	2.000	5.0	0.50	0.37
TDOS0804-102M	1000.0	8.300	2.0	0.32	0.17
TDOS1306-100M	10.0	0.040	30.0	8.00	3.90
TDOS1306-150M	15.0	0.048	20.0	7.00	3.40
TDOS1306-220M	22.0	0.059	18.0	6.00	3.10
TDOS1306-330M	33.0	0.075	14.0	5.00	2.80
TDOS1306-470M	47.0	0.097	10.0	4.00	2.40
TDOS1306-680M	68.0	0.138	9.0	3.00	2.00
TDOS1306-101M	100.0	0.207	7.0	2.40	1.70
TDOS1306-151M	150.0	0.293	6.0	2.10	1.30
TDOS1306-221M	220.0	0.470	5.0	1.90	1.10
TDOS1306-331M	330.0	0.780	4.0	1.10	0.86
TDOS1306-471M	470.0	1.080	3.0	1.10	0.73
TDOS1306-681M	680.0	1.400	2.5	0.96	0.64
TDOS1306-102M	1000.0	2.010	2.0	0.80	0.53

* Test Condition: @100KHz/ 1.0V

* Isat.: Inductance drop = 10% typ.; Irms: ΔT = 40°C rise typ at Irms.



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

Revised 2022/07/06