

TMAS Series (Rev. 1.0)



Features

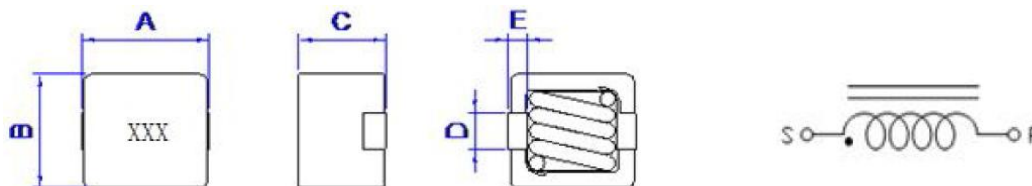
- * High current and Low DCR
- * Low profile for machine placement
- * Minimize electromagnetic interference
- * Prevent EMI Effect via precise impedance
- * Custom design available

Product Identification

TMAS 0807 - 2R2 M
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 2.2uH
4. Tolerance: M=20%, N=30%

Dimension: [mm]



Size Code	A(±0.4)	B(±0.4)	C(±0.5)	D(±0.2)	E(±0.2)
0807	8.4	7.9	7.0	2.3	1.5
1009	10.9	10.0	9.3±0.4	3.0	1.6
1210	12.1±0.3	11.4±0.3	9.5	3.3	2.0

Designed with low RDC and ultra large current. Molded magnetic shielded type is suitable for high-density mounting & ultra low buzz noise. Soldering can be easily confirmed when mounting onto board.

Applications

- * High density DC/DC converters
- * POL convertes
- * High current VRM/VRD for notebook / Server / desktop CPUs
- * High speed charger

Operating & Storage Condition

- * Operating Temp :Stand Type:-25 to +125°C
- * Storage Temp : Stand Type: -25 to +125°C
- * Storage Life Time: 12 Months @25°C,RH40~65%

Test Equipment

- * HP4284A,HP42841A- L,IDC,Q,RDC
- * HP8753D Network Analyzer - SRF

Standard Atmospheric Conditions

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



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Electrical Characteristics

P/N	L (μ H)	Tolerance	DCR ($m\Omega$) typ.	DCR ($m\Omega$) max.	Isat (A) max.	Irms (A) max.
TMAS0807-R30M	0.30	20%	1.40	1.54	36.0	20.5
TMAS0807-R47M	0.47	20%	1.70	1.87	32.0	19.0
TMAS0807-R56M	0.56	20%	1.70	1.87	28.0	19.0
TMAS0807-R68M	0.68	20%	1.70	1.87	23.5	19.0
TMAS0807-R82M	0.82	20%	2.65	3.25	24.0	18.0
TMAS0807-1R0M	1.00	20%	2.95	3.25	24.0	17.0
TMAS0807-1R5M	1.50	20%	4.35	4.79	18.5	16.5
TMAS0807-2R2M	2.20	20%	4.35	4.79	15.0	16.5
TMAS0807-3R3M	3.30	20%	6.35	7.00	11.0	14.0
TMAS1009-R22M	0.22	20%	0.6	0.66	60.00	21.5
TMAS1009-R33M	0.33	20%	0.6	0.66	55.00	21.5
TMAS1009-R47M	0.47	20%	0.80	0.88	47.00	20.5
TMAS1009-R68M	0.68	20%	0.80	0.88	38.00	20.5
TMAS1009-R82M	0.82	20%	1.35	1.49	36.00	20.0
TMAS1009-1R0M	1.00	20%	1.35	1.49	32.00	20.0
TMAS1009-1R5M	1.50	20%	2.50	2.75	27.00	18.5
TMAS1009-2R2M	2.20	20%	3.70	4.07	22.00	16.5
TMAS1009-3R3M	3.30	20%	5.40	5.94	18.00	14.0
TMAS1009-4R7M	4.70	20%	8.20	9.02	17.00	13.0
TMAS1009-6R8M	6.80	20%	13.20	14.52	14.50	11.5
TMAS1009-8R2M	8.20	20%	13.20	14.52	12.00	11.5
TMAS1009-100M	10.00	20%	20.70	22.77	10.00	9.0
TMAS1210-R22M	0.22	20%	0.53	0.58	60.00	27.0
TMAS1210-R33M	0.33	20%	0.53	0.58	55.00	27.0
TMAS1210-R47M	0.47	20%	0.72	0.79	48.00	26.0
TMAS1210-R68M	0.68	20%	0.72	0.79	38.00	26.0
TMAS1210-R82M	0.82	20%	1.17	1.29	36.00	24.0
TMAS1210-1R0M	1.00	20%	1.17	1.29	32.00	24.0
TMAS1210-1R5M	1.50	20%	2.10	2.31	27.00	19.5
TMAS1210-2R2M	2.20	20%	3.05	3.36	23.00	18.0
TMAS1210-3R3M	3.30	20%	4.40	4.84	17.00	17.0
TMAS1210-4R7M	4.70	20%	6.35	6.99	17.00	15.5
TMAS1210-6R8M	6.80	20%	8.98	9.88	13.00	13.0
TMAS1210-8R2M	8.20	20%	9.90	10.89	12.00	13.0
TMAS1210-100M	10.00	20%	14.40	15.84	10.00	9.0

* Test Condition: @100KHz/ 0.1V

* Irms DC current (A) that will cause an approximate ΔT of 45°C

* Isat DC current (A) that will cause L to drop approximately 30%

