

TLPS 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

TLPS 5030 - 102 M
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 1000uH
4. Tolerance: 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 +125°C
- * Storage Temp : Stand Type -40 to +125°C
- * Storage Life Time :12 Months @25°C,RH 65%

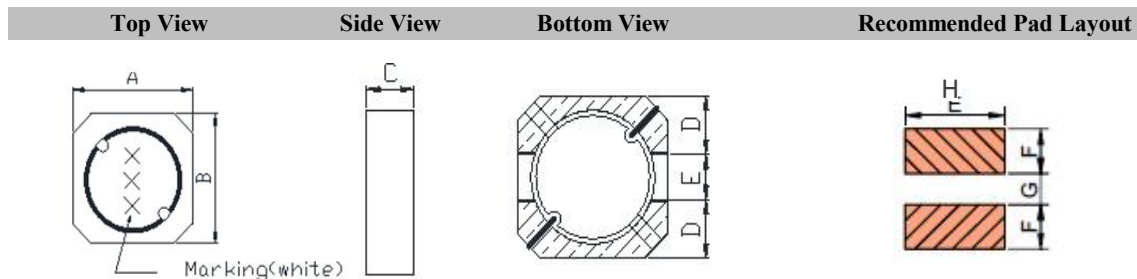
Test Equipment

- * HP4284A,HP42841A-L,IDC,Q,RDC
- * HP8753D NETWORK ANALYZER-SRF

Standard Atmospheric Conditions

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

Dimension & Recommended PAD Layout: [mm]



Size Code	A(±0.2)	B(±0.2)	C(max.)	D(ref)	E(ref.)	F(ref.)	G(ref.)	H(ref.)
5015	5.0	5.0	1.5	1.75	1.5	2.0	1.5	5.4
5020	5.0	5.0	2.0	1.75	1.5	2.0	1.5	5.4
5030	5.0	5.0	3.0	1.75	1.5	2.0	1.5	5.4



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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (\pm %)	DCR ($\text{m}\Omega$) max.	Isat (A) max.	Irms (A) max.
TLPS5015-1R0N	1.0	30	50	3.50	2.65
TLPS5015-1R5N	1.5	30	65	2.60	2.35
TLPS5015-2R2N	2.2	30	90	2.30	2.00
TLPS5015-3R3N	3.3	30	125	2.00	1.80
TLPS5015-4R7N	4.7	30	150	1.70	1.62
TLPS5015-5R6N	5.6	30	175	1.60	1.45
TLPS5015-6R8N	6.8	30	225	1.40	1.25
TLPS5015-8R2N	8.2	30	280	1.30	1.05
TLPS5015-100M	10.0	20	300	1.10	0.95
TLPS5015-120M	12.0	20	350	1.00	0.84
TLPS5015-150M	15.0	20	360	0.70	0.82
TLPS5015-180M	18.0	20	550	0.65	0.82
TLPS5015-220M	22.0	20	675	0.60	0.80
TLPS5015-330M	33.0	20	750	0.50	0.70
TLPS5015-470M	47.0	20	1000	0.45	0.55
TLPS5015-560M	56.0	20	1130	0.40	0.50
TLPS5015-680M	68.0	20	1450	0.35	0.40
TLPS5015-101M	100.0	20	1950	0.28	0.35
TLPS5015-121M	120.0	20	2500	0.26	0.30
TLPS5015-151M	150.0	20	3400	0.24	0.28
TLPS5015-221M	220.0	20	4500	0.20	0.24
TLPS5015-331M	330.0	20	7400	0.16	0.20
TLPS5015-471M	470.0	20	7500	0.12	0.18
TLPS5020-R33N	0.33	30	11	5.80	6.00
TLPS5020-R68N	0.68	30	15	4.00	5.20
TLPS5020-1R0N	1.00	30	25	3.50	4.00
TLPS5020-1R5N	1.50	30	35	3.20	3.30
TLPS5020-2R2N	2.20	30	55	2.70	2.75
TLPS5020-3R3N	3.30	30	65	2.40	2.50
TLPS5020-4R7N	4.70	30	80	2.10	2.00
TLPS5020-5R6M	5.60	20	90	1.95	1.90
TLPS5020-6R8M	6.80	20	105	1.80	1.70
TLPS5020-100M	10.0	20	150	1.40	1.50
TLPS5020-150M	15.0	20	270	1.10	1.20
TLPS5020-220M	22.0	20	350	0.78	0.90
TLPS5020-330M	33.0	20	480	0.65	0.80
TLPS5020-470M	47.0	20	750	0.60	0.70
TLPS5020-101M	100.0	20	1210	0.34	0.55
TLPS5020-121M	120.0	20	1600	0.30	0.48
TLPS5020-151M	150.0	20	2250	0.28	0.40
TLPS5020-221M	220.0	20	3300	0.26	0.37

* Test Condition: @100KHz/ 0.1V

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

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

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (± %)	DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
TLPS5030-1R2N	1.20	30	40	3.50	2.65
TLPS5030-2R2N	2.20	30	57	3.10	2.15
TLPS5030-3R3N	3.30	30	66	2.50	1.80
TLPS5030-4R7N	4.70	30	83	2.00	1.75
TLPS5030-6R8N	6.80	30	99	1.70	1.60
TLPS5030-8R2N	8.20	30	120	1.60	1.50
TLPS5030-100M	10.0	20	150	1.50	1.40
TLPS5030-120M	12.0	20	160	1.40	1.30
TLPS5030-150M	15.0	20	175	1.30	1.20
TLPS5030-220M	22.0	20	190	1.00	1.10
TLPS5030-270M	27.0	20	270	0.90	1.00
TLPS5030-330M	33.0	20	350	0.80	0.90
TLPS5030-470M	47.0	20	500	0.75	0.75
TLPS5030-560M	56.0	20	650	0.65	0.65
TLPS5030-680M	68.0	20	750	0.55	0.60
TLPS5030-101M	100.0	20	900	0.45	0.55
TLPS5030-221M	220.0	20	1450	0.20	0.40
TLPS5030-331M	330.0	20	1800	0.17	0.35
TLPS5030-821M	820.0	20	5000	0.12	0.25
TLPS5030-102M	1000.0	20	5200	0.10	0.20

* Test Condition: @100KHz/ 0.1V

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

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

