

Version:
December 01, 2022

DEMINT

Electronics Co., Ltd.

(TPUA)

Miniature Power Wirewound Inductors

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► Product Introduction

DeMint has extended range of SMD miniature power wirewound inductors with new SMD series.

Features :

- Superior to be high Saturation for surface mounting.
- High heat resistance and excellent solderability.
- Excellent terminal strength construction.

Applications :

- Power supply for VCRS, OA equipment Digital camera.
- LCD television set notebook PC, DC-DC Converters.
- Portable communication equipments, etc.

Miniaturisation of today's electrical and electronic devices requires component manufacturers to increase the performance of components without increasing footprint. DeMint's latest miniature (TPUA) power wirewound chip inductor series offers improved performance in the same compact, low-profile case size.

The (TPUA) series is designed for DC-DC converter applications and features reduced DC resistance and increased allowable current. In DC-DC converters and power supplies, the performance of the power components directly affects the overall efficiency of the supply, so it is of paramount importance.

The (TPU31A) series of wirewound SMD inductor comes with low profile at 1.6 ± 0.3 mm maximum and available in 2.2 μ H to 27 μ H denominations. The series features low DC resistance, down to 0.09 Ω , and high rated current; up to 1.8 A is supported. All parts are low cast with open magnetic circuit construction and good for high mounting density.

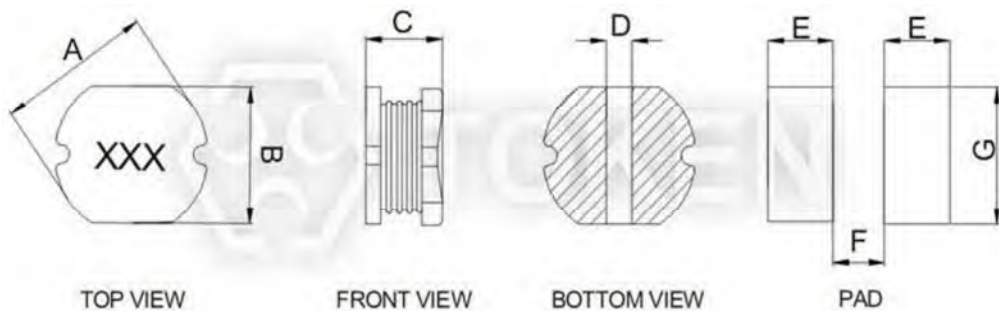
Full (TPUA) series conform to the RoHS directive and Lead-free. Custom parts are available on request. DeMint will also produce devices outside these specifications to meet specific customer requirements, Please contact our sales or link to DeMint official website "[SMD Power Inductors](#)" for more information.



► Dimensions

Dimensions & Configurations (Unit: mm) (TPUA)

Type	A±0.3	B±0.3	C±0.3	D Ref.	E Ref.	F Ref.	G Ref.
TPUA31	3.5	3.0	1.6	1.2	1.1	1.2	3.5
TPUA32	3.5	3.0	2.1	1.2	1.4	1.2	3.5
TPUA42	4.5	4.0	2.1	1.5	1.75	1.5	4.5
TPUA43	4.5	4.0	3.2	1.5	1.75	1.5	4.5
TPUA52	5.8	5.2	2.1	1.6	2.15	1.7	5.5
TPUA53	5.8	5.2	3.2	1.6	2.15	1.7	5.5
TPUA54	5.8	5.2	4.5	1.6	2.15	1.7	5.5
TPUA73	7.8	7.0	3.5±0.4	2.4	3.0	2.0	7.5
TPUA75	7.8	7.0	5.0±0.4	2.4	3.0	2.0	7.5
TPUA104	10.0	9.0	4.0±0.5	3.1	3.75	2.5	9.5
TPUA105	10.0	9.0	5.4±0.5	3.1	3.75	2.5	9.5
TPUA106	10.0	9.0	6.6±0.5	3.1	3.75	2.5	9.5
TPUA108	10.0	9.0	8.0±0.5	3.1	3.75	2.5	9.5



SMT Unshielded Dimensions (TPUA)

Note: Design as Customer's Requested Specifications.

▶ **TPUA31**

Electrical Characteristics (TPUA31)

Part No	Inductance L (μ H)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA31 - 2R2M	2.2	M 、 N	100/0.25	0.09	1.80
TPUA31 - 3R3M	3.3	M 、 N	100/0.25	0.10	1.70
TPUA31 - 4R7M	4.7	M 、 N	100/0.25	0.15	1.50
TPUA31 - 6R8M	6.8	M 、 N	100/0.25	0.25	1.20
TPUA31 - 8R2M	8.2	M 、 N	100/0.25	0.30	1.00
TPUA31 - 100M	10	M 、 N	100/0.25	0.40	0.90
TPUA31 - 120M	12	K 、 M 、 N	100/0.25	0.55	0.80
TPUA31 - 150M	15	K 、 M 、 N	100/0.25	0.63	0.60
TPUA31 - 220M	22	K 、 M 、 N	100/0.25	0.75	0.50
TPUA31 - 270M	27	K 、 M 、 N	100/0.25	0.90	0.40

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- Storage Temperature Range:-40°C to +85°C.

► **TPUA32**

Electrical Characteristics (TPUA32)

Part No	Inductance L (μH)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA32 - 1R0M	1.0	M 、 N	100/0.25	0.05	4.00
TPUA32 - 1R4M	1.4	M 、 N	100/0.25	0.06	3.00
TPUA32 - 1R5M	1.5	M 、 N	100/0.25	0.06	2.60
TPUA32 - 1R8M	1.8	M 、 N	100/0.25	0.07	2.50
TPUA32 - 2R2M	2.2	M 、 N	100/0.25	0.08	2.00
TPUA32 - 2R7M	2.7	M 、 N	100/0.25	0.09	1.90
TPUA32 - 3R3M	3.3	M 、 N	100/0.25	0.11	1.80
TPUA32 - 3R9M	3.9	M 、 N	100/0.25	0.13	1.70
TPUA32 - 4R7M	4.7	M 、 N	100/0.25	0.14	1.50
TPUA32 - 5R6M	5.6	M 、 N	100/0.25	0.18	1.40
TPUA32 - 6R8M	6.8	M 、 N	100/0.25	0.23	1.20
TPUA32 - 8R2M	8.2	M 、 N	100/0.25	0.27	1.10
TPUA32 - 100M	10	M 、 N	100/0.25	0.30	1.10
TPUA32 - 120M	12	K 、 M 、 N	100/0.25	0.35	1.00
TPUA32 - 150M	15	K 、 M 、 N	100/0.25	0.50	1.00
TPUA32 - 180M	18	K 、 M 、 N	100/0.25	0.55	1.00
TPUA32 - 220M	22	K 、 M 、 N	100/0.25	0.65	0.90
TPUA32 - 270M	27	K 、 M 、 N	100/0.25	0.75	0.85
TPUA32 - 330M	33	K 、 M 、 N	100/0.25	0.80	0.80
TPUA32 - 390M	39	K 、 M 、 N	100/0.25	1.20	0.70
TPUA32 - 470M	47	K 、 M 、 N	100/0.25	1.40	0.60
TPUA32 - 560M	56	K 、 M 、 N	100/0.25	1.50	0.50
TPUA32 - 680M	68	K 、 M 、 N	100/0.25	1.60	0.45
TPUA32 - 820M	82	K 、 M 、 N	100/0.25	3.00	0.40
TPUA32 - 101M	100	K 、 M 、 N	100/0.25	3.60	0.35
TPUA32 - 221M	220	K 、 M 、 N	1.0/0.25	6.50	0.30
TPUA32 - 331M	330	K 、 M 、 N	1.0/0.25	12.50	0.18
TPUA32 - 471M	470	K 、 M 、 N	1.0/0.25	14.00	0.09
TPUA32 - 561M	560	K 、 M 、 N	1.0/0.25	18.00	0.05

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises Δt < 40°C.
- Storage Temperature Range:-40°C to +85°C.



► **TPUA43**

Electrical Characteristics (TPUA43)

Part No	Inductance L (μ H)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA43 - 1R0M	1.0	M 、 N	100/0.05	0.033	4.50
TPUA43 - 1R2M	1.2	M 、 N	100/0.05	0.035	4.00
TPUA43 - 1R4M	1.4	M 、 N	100/0.05	0.038	3.80
TPUA43 - 1R8M	1.8	M 、 N	100/0.05	0.042	3.20
TPUA43 - 2R2M	2.2	M 、 N	100/0.05	0.047	2.60
TPUA43 - 2R7M	2.7	M 、 N	100/0.05	0.052	2.43
TPUA43 - 3R3M	3.3	M 、 N	100/0.05	0.058	2.15
TPUA43 - 3R9M	3.9	M 、 N	100/0.05	0.076	1.98
TPUA43 - 4R2M	4.2	M 、 N	100/0.05	0.080	1.80
TPUA43 - 4R7M	4.7	M 、 N	100/0.05	0.094	1.70
TPUA43 - 5R6M	5.6	M 、 N	100/0.05	0.101	1.60
TPUA43 - 5R8M	5.8	M 、 N	100/0.05	0.100	1.50
TPUA43 - 6R8M	6.8	M 、 N	100/0.05	0.120	0.95
TPUA43 - 8R2M	8.2	M 、 N	100/0.05	0.132	1.26
TPUA43 - 100M	10	M 、 N	100/0.05	0.182	1.15
TPUA43 - 120M	12	K 、 M 、 N	100/0.05	0.210	1.05
TPUA43 - 150M	15	K 、 M 、 N	100/0.05	0.235	0.85
TPUA43 - 180M	18	K 、 M 、 N	100/0.05	0.338	0.84
TPUA43 - 220M	22	K 、 M 、 N	100/0.05	0.378	0.76
TPUA43 - 270M	27	K 、 M 、 N	100/0.05	0.522	0.71
TPUA43 - 330M	33	K 、 M 、 N	100/0.05	0.540	0.64
TPUA43 - 390M	39	K 、 M 、 N	100/0.05	0.75	0.59
TPUA43 - 470M	47	K 、 M 、 N	100/0.05	0.844	0.54
TPUA43 - 560M	56	K 、 M 、 N	100/0.05	0.900	0.40
TPUA43 - 680M	68	K 、 M 、 N	100/0.05	0.930	0.40
TPUA43 - 101M	100	K 、 M 、 N	1.0/0.05	1.350	0.40
TPUA43 - 151M	150	K 、 M 、 N	1.0/0.05	1.800	0.20
TPUA43 - 221M	220	K 、 M 、 N	1.0/0.05	2.600	0.20
TPUA43 - 331M	330	K 、 M 、 N	1.0/0.05	3.500	0.10
TPUA43 - 471M	470	K 、 M 、 N	1.0/0.05	4.200	0.08
TPUA43 - 561M	560	K 、 M 、 N	1.0/0.05	6.000	0.05
TPUA43 - 681M	680	K 、 M 、 N	1.0/0.05	7.000	0.05
TPUA43 - 102M	1000	K 、 M 、 N	1.0/0.05	12.500	0.05

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^{\circ}\text{C}$.
- Storage Temperature Range:-40°C to +85°C.

► **TPUA54**

Electrical Characteristics (TPUA54)

Part No	Inductance L (μ H)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA54 - 1R0M	1.0	M 、 N	100/0.25	0.018	6.00
TPUA54 - 1R8M	1.8	M 、 N	100/0.25	0.025	5.80
TPUA54 - 2R2M	2.2	M 、 N	100/0.25	0.026	5.50
TPUA54 - 2R5M	2.5	M 、 N	100/0.25	0.028	5.30
TPUA54 - 2R7M	2.7	M 、 N	100/0.25	0.028	5.10
TPUA54 - 3R3M	3.3	M 、 N	100/0.25	0.030	5.00
TPUA54 - 3R9M	3.9	M 、 N	100/0.25	0.032	4.50
TPUA54 - 4R7M	4.7	M 、 N	100/0.25	0.035	4.00
TPUA54 - 5R6M	5.6	M 、 N	100/0.25	0.040	3.80
TPUA54 - 6R8M	6.8	M 、 N	100/0.25	0.045	3.50
TPUA54 - 8R2M	8.2	M 、 N	100/0.25	0.050	3.00
TPUA54 - 100M	10	M 、 N	100/0.25	0.100	2.80
TPUA54 - 120M	12	K 、 M 、 N	100/0.25	0.120	2.50
TPUA54 - 150M	15	K 、 M 、 N	100/0.25	0.140	2.40
TPUA54 - 180M	18	K 、 M 、 N	100/0.25	0.150	2.30
TPUA54 - 220M	22	K 、 M 、 N	100/0.25	0.180	2.20
TPUA54 - 270M	27	K 、 M 、 N	100/0.25	0.200	2.00
TPUA54 - 330M	33	K 、 M 、 N	100/0.25	0.230	1.50
TPUA54 - 390M	39	K 、 M 、 N	100/0.25	0.320	1.40
TPUA54 - 470M	47	K 、 M 、 N	100/0.25	0.370	1.30
TPUA54 - 560M	56	K 、 M 、 N	100/0.25	0.420	1.30
TPUA54 - 680M	68	K 、 M 、 N	100/0.25	0.460	1.00
TPUA54 - 820M	82	K 、 M 、 N	100/0.25	0.600	0.95
TPUA54 - 101M	100	K 、 M 、 N	1.0/0.25	0.700	0.90
TPUA54 - 121M	120	K 、 M 、 N	1.0/0.25	0.930	0.80
TPUA54 - 151M	150	K 、 M 、 N	1.0/0.25	1.100	0.65
TPUA54 - 181M	180	K 、 M 、 N	1.0/0.25	1.380	0.60
TPUA54 - 221M	220	K 、 M 、 N	1.0/0.25	1.570	0.50
TPUA54 - 331M	330	K 、 M 、 N	1.0/0.25	1.900	0.45
TPUA54 - 561M	560	K 、 M 、 N	1.0/0.25	3.300	0.35
TPUA54 - 681M	680	K 、 M 、 N	1.0/0.25	3.839	0.30
TPUA54 - 102M	1000	K 、 M 、 N	1.0/0.25	5.000	0.20
TPUA54 - 202M	2000	K 、 M 、 N	1.0/0.25	9.500	0.10

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- Storage Temperature Range:-40°C to +85°C.

► **TPUA73**

Electrical Characteristics (TPUA73)

Part No	Inductance L (μH)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA73 - 1R0M	1.0	M 、 N	100/0.25	0.015	7.00
TPUA73 - 1R8M	1.8	M 、 N	100/0.25	0.020	6.50
TPUA73 - 2R7M	2.7	M 、 N	100/0.25	0.025	6.00
TPUA73 - 3R3M	3.3	M 、 N	100/0.25	0.030	5.00
TPUA73 - 3R9M	3.9	M 、 N	100/0.25	0.032	4.50
TPUA73 - 4R7M	4.7	M 、 N	100/0.25	0.040	4.00
TPUA73 - 5R6M	5.6	M 、 N	100/0.25	0.055	3.50
TPUA73 - 6R8M	6.8	M 、 N	100/0.25	0.065	3.30
TPUA73 - 8R2M	8.2	M 、 N	100/0.25	0.075	3.20
TPUA73 - 100M	10	M 、 N	100/0.25	0.080	3.00
TPUA73 - 120M	12	K 、 M 、 N	100/0.25	0.090	2.90
TPUA73 - 150M	15	K 、 M 、 N	100/0.25	0.095	2.80
TPUA73 - 180M	18	K 、 M 、 N	100/0.25	0.100	2.70.
TPUA73 - 220M	22	K 、 M 、 N	100/0.25	0.110	2.50
TPUA73 - 270M	27	K 、 M 、 N	100/0.25	0.125	2.00
TPUA73 - 330M	33	K 、 M 、 N	100/0.25	0.170	1.90
TPUA73 - 390M	39	K 、 M 、 N	100/0.25	0.180	1.80
TPUA73 - 470M	47	K 、 M 、 N	100/0.25	0.300	1.70
TPUA73 - 560M	56	K 、 M 、 N	100/0.25	0.350	1.60
TPUA73 - 680M	68	K 、 M 、 N	100/0.25	0.400	1.20
TPUA73 - 820M	82	K 、 M 、 N	100/0.25	0.450	1.10
TPUA73 - 101M	100	K 、 M 、 N	1.0/0.25	0.500	1.00
TPUA73 - 121M	120	K 、 M 、 N	1.0/0.25	0.600	0.90
TPUA73 - 151M	150	K 、 M 、 N	1.0/0.25	0.800	0.80
TPUA73 - 181M	180	K 、 M 、 N	1.0/0.25	1.000	0.65
TPUA73 - 221M	220	K 、 M 、 N	1.0/0.25	1.500	0.60
TPUA73 - 271M	270	K 、 M 、 N	1.0/0.25	1.800	0.50
TPUA73 - 331M	330	K 、 M 、 N	1.0/0.25	2.500	0.45
TPUA73 - 471M	470	K 、 M 、 N	1.0/0.25	3.000	0.40
TPUA73 - 561M	560	K 、 M 、 N	1.0/0.25	3.500	0.35
TPUA73 - 681M	680	K 、 M 、 N	1.0/0.25	4.000	0.30
TPUA73 - 821M	820	K 、 M 、 N	1.0/0.25	5.000	0.28

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^{\circ}\text{C}$.
- Storage Temperature Range:-40°C to +85°C.



► TPUA75

Electrical Characteristics (TPUA75)

Part No	Inductance L (μ H)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA75 - 1R0M	1.0	M 、 N	100/0.25	0.010	0.80
TPUA75 - 1R2M	1.2	M 、 N	100/0.25	0.010	7.50
TPUA75 - 1R8M	1.8	M 、 N	100/0.25	0.012	7.20
TPUA75 - 2R2M	2.2	M 、 N	100/0.25	0.013	7.00
TPUA75 - 2R7M	2.7	M 、 N	100/0.25	0.015	6.50
TPUA75 - 3R3M	3.3	M 、 N	100/0.25	0.018	6.00
TPUA75 - 3R9M	3.9	M 、 N	100/0.25	0.021	5.50
TPUA75 - 4R7M	4.7	M 、 N	100/0.25	0.026	5.00
TPUA75 - 5R6M	5.6	M 、 N	100/0.25	0.050	4.50
TPUA75 - 6R8M	6.8	M 、 N	100/0.25	0.055	4.00
TPUA75 - 8R2M	8.2	M 、 N	100/0.25	0.060	3.80
TPUA75 - 100M	10	M 、 N	100/0.25	0.070	3.50
TPUA75 - 120M	12	K 、 M 、 N	100/0.25	0.080	3.20
TPUA75 - 150M	15	K 、 M 、 N	100/0.25	0.090	3.00
TPUA75 - 180M	18	K 、 M 、 N	100/0.25	0.100	2.80
TPUA75 - 220M	22	K 、 M 、 N	100/0.25	0.110	2.70
TPUA75 - 270M	27	K 、 M 、 N	100/0.25	0.120	2.50
TPUA75 - 330M	33	K 、 M 、 N	100/0.25	0.130	2.40
TPUA75 - 390M	39	K 、 M 、 N	100/0.25	0.160	2.30
TPUA75 - 470M	47	K 、 M 、 N	100/0.25	0.180	2.20
TPUA75 - 560M	56	K 、 M 、 N	100/0.25	0.240	2.00
TPUA75 - 680M	68	K 、 M 、 N	100/0.25	0.280	1.80
TPUA75 - 820M	82	K 、 M 、 N	100/0.25	0.370	1.70
TPUA75 - 101M	100	K 、 M 、 N	1.0/0.25	0.430	1.60
TPUA75 - 121M	120	K 、 M 、 N	1.0/0.25	0.470	1.50
TPUA75 - 151M	150	K 、 M 、 N	1.0/0.25	0.640	1.00
TPUA75 - 181M	180	K 、 M 、 N	1.0/0.25	0.710	0.90
TPUA75 - 221M	220	K 、 M 、 N	1.0/0.25	0.960	0.80
TPUA75 - 271M	270	K 、 M 、 N	1.0/0.25	1.110	0.70
TPUA75 - 331M	330	K 、 M 、 N	1.0/0.25	1.260	0.60
TPUA75 - 391M	390	K 、 M 、 N	1.0/0.25	1.770	0.50
TPUA75 - 471M	470	K 、 M 、 N	1.0/0.25	1.960	0.45
TPUA75 - 561M	560	K 、 M 、 N	1.0/0.25	2.100	0.40
TPUA75 - 681M	680	K 、 M 、 N	1.0/0.25	2.500	0.35
TPUA75 - 821M	820	K 、 M 、 N	1.0/0.25	3.000	0.30

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- Storage Temperature Range:-40°C to +85°C.



► TPUA104

Electrical Characteristics (TPUA104)

Part No	Inductance L (μH)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA104 - 1R0M	1.0	M、N	100/0.25	0.015	9.00
TPUA104 - 1R8M	1.8	M、N	100/0.25	0.020	8.50
TPUA104 - 2R7M	2.7	M、N	100/0.25	0.025	8.00
TPUA104 - 3R3M	3.3	M、N	100/0.25	0.030	7.50
TPUA104 - 3R9M	3.9	M、N	100/0.25	0.040	7.00
TPUA104 - 4R7M	4.7	M、N	100/0.25	0.045	6.00
TPUA104 - 5R6M	5.6	M、N	100/0.25	0.050	5.00
TPUA104 - 6R8M	6.8	M、N	100/0.25	0.053	4.50
TPUA104 - 8R2M	8.2	M、N	100/0.25	0.058	4.00
TPUA104 - 100M	10	M、N	100/0.25	0.060	3.80
TPUA104 - 120M	12	K、M、N	100/0.25	0.070	3.50
TPUA104 - 150M	15	K、M、N	100/0.25	0.080	3.00
TPUA104 - 180M	18	K、M、N	100/0.25	0.090	2.80
TPUA104 - 220M	22	K、M、N	100/0.25	0.100	2.50
TPUA104 - 270M	27	K、M、N	100/0.25	0.110	2.00
TPUA104 - 330M	33	K、M、N	100/0.25	0.120	1.90
TPUA104 - 390M	39	K、M、N	100/0.25	0.140	1.80
TPUA104 - 470M	47	K、M、N	100/0.25	0.170	1.70
TPUA104 - 560M	56	K、M、N	100/0.25	0.190	1.60
TPUA104 - 680M	68	K、M、N	100/0.25	0.220	1.50
TPUA104 - 820M	82	K、M、N	100/0.25	0.250	1.20
TPUA104 - 101M	100	K、M、N	1.0/0.25	0.350	1.00
TPUA104 - 121M	120	K、M、N	1.0/0.25	0.400	0.90
TPUA104 - 151M	150	K、M、N	1.0/0.25	0.470	0.77
TPUA104 - 181M	180	K、M、N	1.0/0.25	0.530	0.69
TPUA104 - 221M	220	K、M、N	1.0/0.25	0.620	0.61
TPUA104 - 271M	270	K、M、N	1.0/0.25	0.780	0.54
TPUA104 - 321M	320	K、M、N	1.0/0.25	0.850	0.50
TPUA104 - 331M	330	K、M、N	1.0/0.25	0.900	0.46
TPUA104 - 391M	390	K、M、N	1.0/0.25	0.980	0.38
TPUA104 - 471M	470	K、M、N	1.0/0.25	1.500	0.32
TPUA104 - 561M	560	K、M、N	1.0/0.25	2.000	0.28
TPUA104 - 681M	680	K、M、N	1.0/0.25	2.800	0.25
TPUA104 - 821M	820	K、M、N	1.0/0.25	3.200	0.15
TPUA104 - 102M	1000	K、M、N	1.0/0.25	3.500	0.10

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises $\Delta t < 40^\circ\text{C}$.
- Storage Temperature Range:-40°C to +85°C.



► TPUA105

Electrical Characteristics (TPUA105)

Part No	Inductance L (μH)	Tolerance	Test Freq (KHz/V)	DCR (Ω) Max.	Heat Rating Current DC Amps. Idc (A)
TPUA105 - 1R0M	1.0	M 、 N	100/0.25	0.015	9.80
TPUA105 - 1R8M	1.8	M 、 N	100/0.25	0.022	9.50
TPUA105 - 2R7M	2.7	M 、 N	100/0.25	0.028	9.00
TPUA105 - 3R3M	3.3	M 、 N	100/0.25	0.032	8.50
TPUA105 - 3R9M	3.9	M 、 N	100/0.25	0.034	8.00
TPUA105 - 4R7M	4.7	M 、 N	100/0.25	0.038	7.50
TPUA105 - 5R6M	5.6	M 、 N	100/0.25	0.039	7.00
TPUA105 - 6R8M	6.8	M 、 N	100/0.25	0.040	6.00
TPUA105 - 8R2M	8.2	M 、 N	100/0.25	0.058	5.50
TPUA105 - 100M	10	M 、 N	100/0.25	0.060	5.00
TPUA105 - 120M	12	K 、 M 、 N	100/0.25	0.070	4.80
TPUA105 - 150M	15	K 、 M 、 N	100/0.25	0.080	4.50
TPUA105 - 180M	18	K 、 M 、 N	100/0.25	0.090	4.00
TPUA105 - 220M	22	K 、 M 、 N	100/0.25	0.100	3.50
TPUA105 - 270M	27	K 、 M 、 N	100/0.25	0.110	3.20
TPUA105 - 330M	33	K 、 M 、 N	100/0.25	0.120	3.00
TPUA105 - 390M	39	K 、 M 、 N	100/0.25	0.140	2.80
TPUA105 - 470M	47	K 、 M 、 N	100/0.25	0.170	2.70
TPUA105 - 560M	56	K 、 M 、 N	100/0.25	0.190	2.50
TPUA105 - 680M	68	K 、 M 、 N	100/0.25	0.220	2.00
TPUA105 - 820M	82	K 、 M 、 N	100/0.25	0.250	1.80
TPUA105 - 101M	100	K 、 M 、 N	1.0/0.25	0.350	1.50
TPUA105 - 121M	120	K 、 M 、 N	1.0/0.25	0.400	1.40
TPUA105 - 151M	150	K 、 M 、 N	1.0/0.25	0.450	1.20
TPUA105 - 221M	220	K 、 M 、 N	1.0/0.25	0.520	1.00
TPUA105 - 271M	270	K 、 M 、 N	1.0/0.25	0.600	0.90
TPUA105 - 331M	330	K 、 M 、 N	1.0/0.25	0.800	0.80
TPUA105 - 391M	390	K 、 M 、 N	1.0/0.25	0.850	0.75
TPUA105 - 471M	470	K 、 M 、 N	1.0/0.25	0.950	0.70
TPUA105 - 561M	560	K 、 M 、 N	1.0/0.25	1.100	0.65
TPUA105 - 681M	680	K 、 M 、 N	1.0/0.25	2.100	0.60
TPUA105 - 821M	820	K 、 M 、 N	1.0/0.25	2.500	0.50
TPUA105 - 102M	1000	K 、 M 、 N	1.0/0.25	3.000	0.40

Note:

- Operating temperature range:-30°C to +100°C (Including self-generated heat).
- Inductance measured using the HP4284A; Chroma 3302+1320.
- DCR measured using the 16502 milli-ohm meter.
- Inductance drop no more than 10% of initial value at rated current, temperature rises Δt < 40°C.
- Storage Temperature Range:-40°C to +85°C.

Order Codes

Order Codes (TPUA)

TPUA32			-	1R0		M	
Part Number				Inductance		Tolerance	
TPUA31	TPUA54	TPUA104		1R0	1.00μH	J	±5%
TPUA32	TPUA73	TPUA105		100	10.00μH	K	±10%
TPUA43	TPUA75			101	100.00μH	L	±15%
				102	1000.00μH	M	±20%
						P	±25%
						N	±30%



► General Information

How to Quickly Search Inductor for all of the Characteristics?

Quickly Search Inductor Finder

Searching and comparing data sheets of inductor manufacturers can be time consuming. DeMint's Parameter Sorting Search Mode allows selection of inductors based on different parameters.

By entering just the inductance value,

By sorting parameter to narrow down searching range,

Or by enter keyword / part number / size dimensions L*W*H to partial or exact searching.

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Please forward us:

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- Details of an existing solution that you'd like to replace, enhance or find an alternative.
- Inquiries for feasibility to tailor a power transformer or inductor to your specific application.

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