

Chip Toroidal Power Inductors

Token Compact Power Toroidal Inductors Are Bursting With Energy (TPUTX)

► Preview

Token Power Solutions has enhanced its toroidal surface-mount inductor portfolios with the addition of four new ranges (TPUTX-2P/2S/4P/4S) of RoHS compliant components.

This TPUTX Range of toroidal inductors is based on iron powder cores, for good suppression performance at high frequencies, high overload capability, low flux-leakage, economical pricing, and optimized for use as high frequency DC chokes.

This low cost surface-mount toroidal inductor meanwhile are designed for use in switching AC/DC power supplies and DC/DC converters. The TPUTX series offer low DC resistance and is available with current ratings up to 7.9 A IDC and inductance values that range from 0.49 uH to 1201.70 uH.

The height of TPUTX-2P and TPUTX-2S is 5.96 mm (Max.), and TPUTX-4P and TPUTX-4S is 7.00 mm (Max.). These low-profile design makes them ideal for use in designs where component height is restricted. The toroid core offers compact size with minimal external magnetic fields and is ideal for low voltage applications, particularly the latest generation of low voltage microprocessors.

Custom parts are available on request. Application of specific designs also available including different inductance and frequency specifications adjusted to requirements. Please contact our sales for more information.

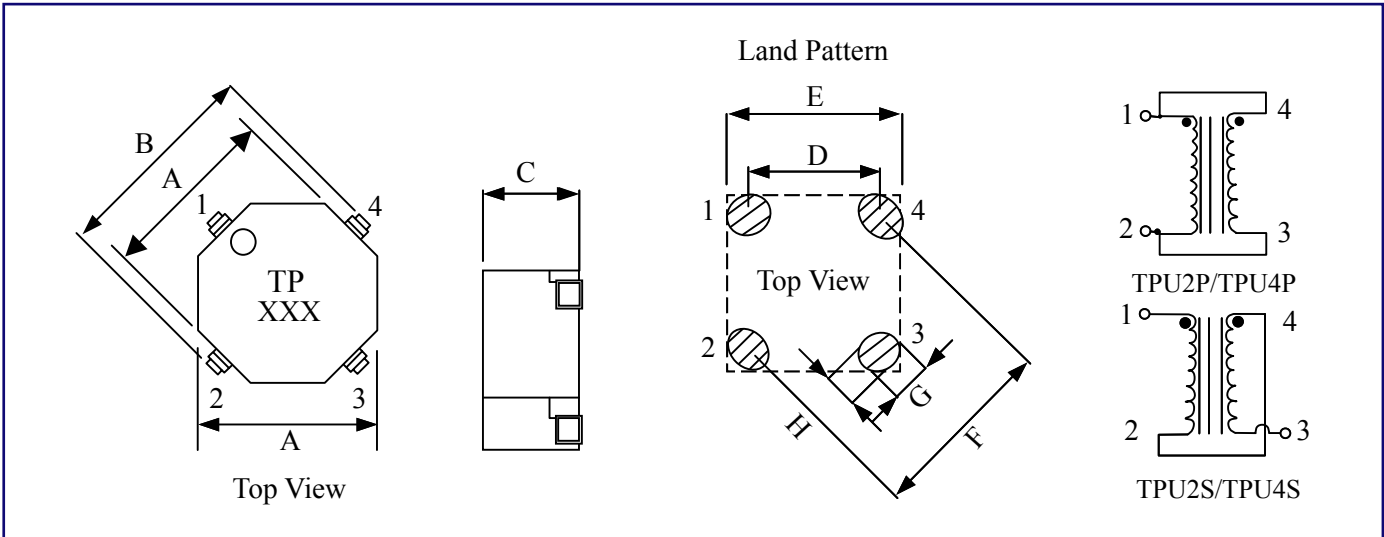
Features :

- Maximum power density.
- Closed magnetic circuit for lowest EMI.
- Toroidal with powdered iron cores & low cost.

Applications :

- Power Supply Applications.
- Output Ripple Current Filter.
- VGA Card.

▶ (TPULF7032/7045) Dimensions & Configurations



Type	A ± 0.5	B ± 0.5	C(max)	D	E	F	G	H
TPUTX-2P	9.00	11.60	5.96	7.04	10.72	9.96	3.68	3.05
TPUTX-4P	11.40	14.40	7.00	8.84	12.50	12.50	4.06	3.05
TPUTX-2S	9.00	11.60	5.96	7.04	10.72	9.96	3.68	3.05
TPUTX-4S	11.40	14.40	7.00	8.84	12.50	12.50	4.06	3.05

Note: Design as Customer's Requested Specifications.

▶ (TPUTX-2P) Electrical Characteristics

Part Number	L (μH)±20%	L @ IDC(μH) (min)	DCR (Ω)(max)	IDC (A)(max)
TPUTX-2P-0.47	0.54	0.42	0.006	5.90
TPUTX-2P-0.68	0.85	0.64	0.008	5.40
TPUTX-2P-1	1.22	0.89	0.009	5.00
TPUTX-2P-2	2.18	1.56	0.014	3.90
TPUTX-2P-5	4.90	3.57	0.032	2.50
TPUTX-2P-8	7.65	5.31	0.040	2.30
TPUTX-2P-10	9.83	6.73	0.045	2.10
TPUTX-2P-15	14.99	10.51	0.085	1.60
TPUTX-2P-20	19.58	13.37	0.097	1.50
TPUTX-2P-25	24.79	16.60	0.109	1.40
TPUTX-2P-33	32.67	21.29	0.126	1.30
TPUTX-2P-50	49.10	35.31	0.306	0.82
TPUTX-2P-68	68.85	47.93	0.362	0.76
TPUTX-2P-100	99.14	69.56	0.541	0.62
TPUTX-2P-150	148.10	100.07	0.666	0.56
TPUTX-2P-200	201.59	138.49	0.951	0.46
TPUTX-2P-300	300.42	197.52	1.176	0.42

Note: Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C.

▶ (TPUTX-2S) Electrical Characteristics

Part Number	L (μH)±20%	L @ IDC(μH) (min)	DCR (Ω)(max)	IDC (A)(max)
TPUTX-2S-2	2.18	1.69	0.024	2.95
TPUTX-2S-3	3.40	2.55	0.029	2.70
TPUTX-2S-5	4.90	3.57	0.034	2.50
TPUTX-2S-9	8.70	6.26	0.056	1.95
TPUTX-2S-20	19.58	14.26	0.128	1.25
TPUTX-2S-30	30.60	21.23	0.159	1.15
TPUTX-2S-40	39.30	26.92	0.179	1.05
TPUTX-2S-60	59.98	42.02	0.339	0.80
TPUTX-2S-80	78.34	53.48	0.387	0.75
TPUTX-2S-100	99.14	66.38	0.436	0.70
TPUTX-2S-130	130.70	85.17	0.503	0.65
TPUTX-2S-200	196.38	141.24	1.221	0.41
TPUTX-2S-280	275.40	191.71	1.447	0.38
TPUTX-2S-400	396.58	278.22	2.162	0.31
TPUTX-2S-600	592.42	400.27	2.661	0.28
TPUTX-2S-800	806.34	553.97	3.804	0.23
TPUTX-2S-1200	1201.70	790.08	4.703	0.21

Note: Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C.

▶ (TPUTX-4P) Electrical Characteristics

Part Number	L (μH)±20%	L @ IDC(μH) (min)	DCR (Ω)(max)	IDC (A)(max)
TPUTX-4P-0.47	0.49	0.37	0.005	7.90
TPUTX-4P-0.68	0.76	0.56	0.006	7.20
TPUTX-4P-1	1.10	0.81	0.009	5.90
TPUTX-4P-2	1.95	1.42	0.014	4.60
TPUTX-4P-5	5.15	3.56	0.027	3.30
TPUTX-4P-8	7.81	5.15	0.033	3.00
TPUTX-4P-10	9.88	6.70	0.047	2.50
TPUTX-4P-15	14.76	9.52	0.057	2.30
TPUTX-4P-20	20.62	13.44	0.085	1.90
TPUTX-4P-25	25.65	17.17	0.116	1.60
TPUTX-4P-33	33.21	22.93	0.166	1.30
TPUTX-4P-50	48.80	32.21	0.202	1.20
TPUTX-4P-68	67.37	43.04	0.238	1.10
TPUTX-4P-100	99.09	69.54	0.565	0.72
TPUTX-4P-150	149.45	101.46	0.696	0.64
TPUTX-4P-200	200.11	131.37	0.810	0.60
TPUTX-4P-300	298.93	188.03	1.003	0.54

Note: Test Freq.: 1KHz / 0.25V.

Operating Temp.: -40°C ~ +85°C.

▶ (TPUTX-4S) Electrical Characteristics

Part Number	L (μH)±20%	L @ IDC(μH) (min)	DCR (Ω)(max)	IDC (A)(max)
TPUTX-4S-2	1.95	1.49	0.019	3.95
TPUTX-4S-3	3.05	2.24	0.023	3.60
TPUTX-4S-4	4.39	3.24	0.034	2.95
TPUTX-4S-8	7.81	5.69	0.055	2.30
TPUTX-4S-20	20.62	14.23	0.107	1.65
TPUTX-4S-30	31.23	20.61	0.131	1.50
TPUTX-4S-40	39.53	26.79	0.187	1.25
TPUTX-4S-60	59.05	38.09	0.228	1.15
TPUTX-4S-80	82.47	53.76	0.337	0.95
TPUTX-4S-100	102.60	68.68	0.462	0.80
TPUTX-4S-130	132.86	91.72	0.663	0.65
TPUTX-4S-200	195.20	128.83	0.805	0.60
TPUTX-4S-270	269.50	172.16	0.952	0.55
TPUTX-4S-400	396.38	278.15	2.259	0.36
TPUTX-4S-600	597.80	405.83	2.784	0.32
TPUTX-4S-800	800.44	525.47	3.240	0.30
TPUTX-4S-1200	1195.72	752.13	4.011	0.27

▶ (TPUTX-2P/2S/4P/4S) How to Order

TPUTX-2P

❶

0.47

❷

❶ Part Number: TPUTX-2P, TPUTX-2S
TPUTX-4P, TPUTX-4S

❷ Code

Code
0.47
0.68
...
300

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