EMI FILTERING · POWER LINE CHOKES

TP Series Common Mode Chokes

TP 系列扁平线 / 圆线共模电感 · 选型表

Compact common mode chokes for AC and DC input EMI filtering in switched-mode power supplies, inverters, motor drives and industrial controllers. Flat-wire windings keep the copper fill factor high and the DC resistance low in a shallow footprint, while the two-winding bobbin construction gives a stable, repeatable common mode impedance from the low kilohertz range up to several megahertz.

INDUCTANCE	RATED CURRENT	DCR	STANDARD VARIANTS
4 µH – 30 mH	0.5 – 63 A	4 – 800 mΩ	144
Across 27 core sizes	Operating window per variant	Maximum, at 25 °C	Ready-to-quote part numbers

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP1008Y-700uH	700 µH	14	Ø 0.35	0.7 – 1.0	70	440	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE8.3
TP1008Y-300uH	300 µH	10	Ø 0.45	1.1 – 1.6	36	188	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE8.3
TP1008Y-270uH	270 µH	9	Ø 0.50	1.4 – 2.0	28	170	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE8.3
TP1008Y-220uH	220 µH	8	Ø 0.60	2.0 – 2.8	20	138	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE8.3
TP1008NY-15uH	15 µH	14	Ø 0.35	1.0 – 1.3	70	9	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3
TP1008NY-12uH	12 µH	10	Ø 0.45	1.2 – 2.0	36	8	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3
TP1008NY-10uH	10 µH	8	Ø 0.60	2.0 – 3.7	20	6	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3
TP1008NY-4uH	4 µH	7	Ø 0.70	2.8 – 4.8	20	3	4.9 × 7	7 × 8	20 – 60 W	T10×6×5 · T9×5×3 · T8×4×3
TP1010-8.0mH	8.0 mH	36	0.10 × 0.70	0.5 – 1.0	200	5,027	5.8 × 7	7 × 8	≤ 36 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE10 · EE8.3
TP1010-8.0mH	8.0 mH	36	0.10 × 1.00	0.8 – 1.2	180	5,027	5.8 × 7	7 × 8	≤ 36 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE10 · EE8.3
TP1010-5.0mH	5.0 mH	30	0.13 × 1.00	1.0 – 1.5	170	3,142	5.8 × 7	7 × 8	≤ 36 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE10 · EE8.3
TP1010-3.0mH	3.0 mH	25	0.15 × 0.70	0.8 – 1.2	150	1,885	5.8 × 7	7 × 8	≤ 36 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE10 · EE8.3
TP1010-3.0mH	3.0 mH	25	0.15 × 1.00	1.8 – 2.0	100	1,885	5.8 × 7	7 × 8	≤ 36 W	T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE12 · EE10 · EE8.3
TP1012-15.0mH	15.0 mH	41	0.10 × 1.00	1.0 – 1.5	200	9,425	6 × 8	—	20 – 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU9.8 · EE15 · EE12 · EE10
TP1012-10.0mH	10.0 mH	32	0.13 × 1.00	1.5 – 2.0	180	6,283	6 × 8	—	20 – 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU9.8 · EE15 · EE12 · EE10
TP1012-8.0mH	8.0 mH	30	0.15 × 1.00	1.8 – 2.2	150	5,027	6 × 8	—	20 – 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU9.8 · EE15 · EE12 · EE10

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP1210-12.0mH	12.0 mH	48	0.10 × 0.70	0.5 – 1.0	260	7,540	5.8 × 7	10 × 13	20 – 60 W	T12×6×4 · T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE15 · EE12 · EE10 · EE8.3
TP1210-12.0mH	12.0 mH	48	0.10 × 1.00	0.8 – 1.2	200	7,540	5.8 × 7	10 × 13	20 – 60 W	T12×6×4 · T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE15 · EE12 · EE10 · EE8.3
TP1210-6.0mH	6.0 mH	36	0.13 × 1.00	1.0 – 1.5	150	3,770	5.8 × 7	10 × 13	20 – 60 W	T12×6×4 · T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE15 · EE12 · EE10 · EE8.3
TP1210-4.0mH	4.0 mH	34	0.15 × 0.70	0.8 – 1.2	150	2,513	5.8 × 7	10 × 13	20 – 60 W	T12×6×4 · T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE15 · EE12 · EE10 · EE8.3
TP1210-4.0mH	4.0 mH	34	0.15 × 1.00	1.8 – 2.2	120	2,513	5.8 × 7	10 × 13	20 – 60 W	T12×6×4 · T10×6×5 · T9×5×3 · T8×4×3 · UU9.8 · EE15 · EE12 · EE10 · EE8.3
TP1212-15.0mH	15.0 mH	52	0.10 × 1.00	1.0 – 1.5	240	9,425	6 × 8 slim	10 × 13	≤ 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10
TP1212-10.0mH	10.0 mH	45	0.13 × 1.00	1.5 – 2.0	200	6,283	6 × 8 slim	10 × 13	≤ 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10
TP1212-8.0mH	8.0 mH	38	0.15 × 1.00	1.8 – 2.2	150	5,027	6 × 8 slim	10 × 13	≤ 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10
TP1212-5.0mH	5.0 mH	32	0.20 × 1.00	2.0 – 2.5	95	3,142	6 × 8 slim	10 × 13	≤ 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10
TP1212-3.0mH	3.0 mH	24	0.25 × 1.00	2.5 – 3.0	90	1,885	6 × 8 slim	10 × 13	≤ 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10
TP1212-2.0mH	2.0 mH	22	0.30 × 1.00	2.5 – 3.2	85	1,257	6 × 8 slim	10 × 13	≤ 60 W	T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10
TP1212Y-500uH	500 µH	9	Ø 0.70	2.7 – 3.8	20	314	7 × 8	—	—	—
TP1410-15.0mH	15.0 mH	60	0.10 × 0.70	0.5 – 1.0	320	9,425	5.8 × 7	10 × 13	60 – 120 W	T16×10×8 · T14 · T12×6×4 · UU10.5 · UT20 · UT16 · UT10.5 · EE15 · EE12
TP1410-15.0mH	15.0 mH	60	0.10 × 1.00	0.8 – 1.2	300	9,425	5.8 × 7	10 × 13	60 – 120 W	T16×10×8 · T14 · T12×6×4 · UU10.5 · UT20 · UT16 · UT10.5 · EE15 · EE12
TP1410-8.0mH	8.0 mH	46	0.13 × 1.00	1.0 – 1.5	200	5,027	5.8 × 7	10 × 13	60 – 120 W	T16×10×8 · T14 · T12×6×4 · UU10.5 · UT20 · UT16 · UT10.5 · EE15 · EE12
TP1410-6.0mH	6.0 mH	42	0.15 × 1.00	1.8 – 2.2	180	3,770	5.8 × 7	10 × 13	60 – 120 W	T16×10×8 · T14 · T12×6×4 · UU10.5 · UT20 · UT16 · UT10.5 · EE15 · EE12
TP1412-25.0mH	25.0 mH	60	0.10 × 1.00	1.0 – 1.5	280	15,708	6 × 8	10 × 13	60 – 120 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1412FN-12.0mH	12.0 mH	28	0.15 × 1.00	1.8 – 2.2	100	7,540	6 × 8	10 × 13	60 – 120 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1412-12.0mH	12.0 mH	48	0.13 × 1.00	1.5 – 2.0	200	7,540	6 × 8	10 × 13	60 – 120 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1412-10.0mH	10.0 mH	45	0.15 × 1.00	1.8 – 2.2	180	6,283	6 × 8	10 × 13	60 – 120 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP1412FN-8.0mH	8.0 mH	24	0.20 × 1.00	2.0 – 2.5	80	5,027	6 × 8	10 × 13	60 – 120 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1412-8.0mH	8.0 mH	34	0.20 × 1.00	2.0 – 2.5	120	5,027	6 × 8	10 × 13	60 – 120 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1415-28.0mH	28.0 mH	58	0.10 × 1.00	1.0 – 1.5	320	17,593	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-18.0mH	18.0 mH	48	0.13 × 1.00	1.5 – 2.0	240	11,310	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-14.0mH	14.0 mH	44	0.15 × 1.00	1.8 – 2.2	200	8,796	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-12.0mH	12.0 mH	40	0.15 × 1.50	2.0 – 2.8	160	7,540	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-10.0mH	10.0 mH	35	0.20 × 1.00	2.0 – 2.5	140	6,283	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-8.0mH	8.0 mH	32	0.20 × 1.50	2.5 – 3.0	90	5,027	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-5.0mH	5.0 mH	28	0.25 × 1.50	3.0 – 4.5	80	3,142	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1415-4.0mH	4.0 mH	26	0.30 × 1.50	3.5 – 4.5	70	2,513	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-30.0mH	30.0 mH	69	0.10 × 1.00	1.0 – 1.5	350	18,850	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-20.0mH	20.0 mH	54	0.13 × 1.50	1.8 – 2.0	180	12,566	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-20.0mH	20.0 mH	56	0.13 × 1.00	1.5 – 2.0	250	12,566	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-15.0mH	15.0 mH	48	0.15 × 1.20	1.8 – 2.5	180	9,425	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-15.0mH	15.0 mH	48	0.15 × 1.50	2.0 – 2.8	170	9,425	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-15.0mH	15.0 mH	50	0.15 × 1.00	1.8 – 2.2	200	9,425	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-10.0mH	10.0 mH	37	0.20 × 1.50	2.5 – 3.0	100	6,283	8 × 10	10 × 13	60 – 150 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-10.0mH	10.0 mH	40	0.20 × 1.00	2.0 – 2.5	150	6,283	8 × 10	10 × 13	60 – 120 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-5.0mH	5.0 mH	32	0.25 × 1.50	3.0 – 4.5	80	3,142	8 × 10	10 × 13	60 – 150 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515-3.0mH	3.0 mH	27	0.30 × 1.50	3.5 – 4.5	70	1,885	8 × 10	10 × 13	60 – 150 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP1515-2.0mH	2.0 mH	20	0.40 × 1.50	5.0 – 6.0	60	1,257	8 × 10	10 × 13	60 – 150 W	T20×10×10 · T18×10×8 · T16×10×8 · UU10.5 · UT20 · EE15
TP1515Y-680uH	680 µH	11	Ø 0.80	3.5 – 5.0	25	427	10 × 13	—	—	—
TP1515Y-180uH	180 µH	7	Ø 1.00	4.7 – 7.8	25	113	10 × 13	—	—	—
TP1616E-25.0mH	25.0 mH	69	0.10 × 1.00	1.0 – 1.5	350	15,708	8 × 10	—	60 – 150 W	—
TP1616E-20.0mH	20.0 mH	59	0.13 × 1.00	1.5 – 2.0	250	12,566	8 × 10	—	60 – 150 W	—
TP1812-30.0mH	30.0 mH	85	0.10 × 1.00	1.0 – 1.5	380	18,850	7 × 8	—	80 – 150 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1812-15.0mH	15.0 mH	69	0.13 × 1.00	1.5 – 2.0	250	9,425	7 × 8	—	80 – 150 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1812-10.0mH	10.0 mH	63	0.15 × 1.00	1.8 – 2.2	220	6,283	7 × 8	—	80 – 150 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1812-6.0mH	6.0 mH	50	0.20 × 1.00	2.0 – 2.5	130	3,770	7 × 8	—	80 – 150 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1812-5.0mH	5.0 mH	43	0.25 × 1.00	2.5 – 3.0	100	3,142	7 × 8	—	80 – 150 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1812-3.0mH	3.0 mH	36	0.30 × 1.00	2.5 – 3.2	65	1,885	7 × 8	—	80 – 150 W	T16×10×8 · T14×8×7 · T12×6×4 · T10×6×5 · UU10.5 · UU9.8 · EE15 · EE12 · EE10 · UT20 · UT16
TP1815FN-15.0mH	15.0 mH	34	0.20 × 1.00	2.0 – 2.5	100	9,425	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1815FN-15.0mH	15.0 mH	34	0.20 × 1.50	2.5 – 3.0	80	9,425	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1815FN-10.0mH	10.0 mH	24	0.30 × 1.50	3.5 – 4.5	60	6,283	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1815FN-10.0mH	10.0 mH	25	0.30 × 1.00	2.5 – 3.0	70	6,283	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1815-6.0mH	6.0 mH	37	0.20 × 1.50	1.8 – 3.0	100	3,770	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1815-2.5mH	2.5 mH	23	0.35 × 1.50	3.0 – 5.0	30	1,571	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1815-1.0mH	1.0 mH	14	0.40 × 1.50	4.0 – 6.0	30	628	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP1918-25.0mH	25.0 mH	73	0.13 × 1.00	1.0 – 1.5	350	15,708	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-20.0mH	20.0 mH	60	0.15 × 1.50	2.0 – 2.8	230	12,566	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-20.0mH	20.0 mH	63	0.15 × 1.00	1.2 – 1.8	250	12,566	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-10.0mH	10.0 mH	50	0.20 × 1.00	2.0 – 2.5	145	6,283	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP1918-10.0mH	10.0 mH	50	0.20 × 1.50	2.5 – 3.0	130	6,283	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-8.0mH	8.0 mH	44	0.25 × 1.00	2.3 – 2.5	110	5,027	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-6.0mH	6.0 mH	41	0.25 × 1.50	3.5 – 4.5	100	3,770	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-5.0mH	5.0 mH	31	0.35 × 1.50	3.4 – 5.5	60	3,142	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-5.0mH	5.0 mH	34	0.30 × 2.00	4.5 – 6.5	90	3,142	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-5.0mH	5.0 mH	35	0.30 × 1.50	4.0 – 5.0	100	3,142	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-2.0mH	2.0 mH	26	0.40 × 2.00	5.5 – 8.5	30	1,257	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-2.0mH	2.0 mH	27	0.40 × 1.50	4.8 – 7.2	50	1,257	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP1918-1.8mH	1.8 mH	21	0.50 × 1.50	5.5 – 7.5	48	1,131	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2015-30.0mH	30.0 mH	70	0.15 × 1.50	1.5 – 2.0	380	18,850	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP2015-25.0mH	25.0 mH	70	0.15 × 1.50	2.0 – 2.8	210	15,708	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP2015-20.0mH	20.0 mH	56	0.20 × 1.50	2.5 – 3.0	180	12,566	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP2015-8.0mH	8.0 mH	46	0.25 × 1.50	3.0 – 4.5	100	5,027	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP2015-6.0mH	6.0 mH	38	0.40 × 1.50	5.0 – 6.0	80	3,770	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T20×10×10
TP2018E-30.0mH	30.0 mH	90	0.10 × 1.00	1.0 – 1.5	800	18,850	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2018E-20.0mH	20.0 mH	73	0.13 × 1.00	1.5 – 2.0	350	12,566	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2018E-15.0mH	15.0 mH	66	0.15 × 1.50	2.0 – 2.8	200	9,425	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2018E-10.0mH	10.0 mH	52	0.20 × 1.00	2.0 – 2.5	180	6,283	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2018E-10.0mH	10.0 mH	52	0.20 × 1.50	2.5 – 3.0	120	6,283	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2118FN-25.0mH	25.0 mH	40	0.20 × 1.50	2.5 – 3.0	100	15,708	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2118FN-12.0mH	12.0 mH	28	0.30 × 1.50	3.6 – 5.5	50	7,540	10 × 13	10 × 13	120 – 200 W	T28×19×15 · T25×15×10 · T22×14×8 · T20×10×10 · UT24 · UT28
TP2318-6.0mH	6.0 mH	42	0.30 × 2.00	4.5 – 6.5	100	3,770	10 × 13	21.5 × 17	200 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP2318-3.0mH	3.0 mH	26	0.50 × 1.50	5.5 – 7.5	35	1,885	10 × 13	21.5 × 17	200 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-25.0mH	25.0 mH	90	0.15 × 1.00	1.8 – 2.2	380	15,708	10 × 13	21.5 × 17	300 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-18.0mH	18.0 mH	67	0.20 × 1.50	2.5 – 3.0	100	11,310	10 × 13	21.5 × 17	300 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-12.0mH	12.0 mH	59	0.25 × 1.50	3.0 – 4.5	98	7,540	10 × 13	21.5 × 17	300 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-10.0mH	10.0 mH	48	0.30 × 1.50	3.5 – 5.5	95	6,283	10 × 13	21.5 × 17	300 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-10.0mH	10.0 mH	48	0.30 × 2.00	4.5 – 6.5	90	6,283	10 × 13	21.5 × 17	300 – 500 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-6.0mH	6.0 mH	44	0.35 × 1.50	4.0 – 6.0	93	3,770	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-5.0mH	5.0 mH	38	0.40 × 1.50	4.5 – 7.5	75	3,142	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-4.0mH	4.0 mH	38	0.40 × 2.00	5.5 – 8.5	50	2,513	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-3.5mH	3.5 mH	32	0.50 × 1.80	6.5 – 11.0	50	2,199	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-3.0mH	3.0 mH	32	0.50 × 1.50	5.5 – 7.5	50	1,885	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-2.5mH	2.5 mH	28	0.53 × 2.00	7.5 – 12.0	50	1,571	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-2.0mH	2.0 mH	24	0.60 × 2.00	9.6 – 14.5	30	1,257	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2418-2.0mH	2.0 mH	28	0.55 × 1.50	6.5 – 9.0	40	1,257	10 × 13	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP2721FN-8.0mH	8.0 mH	18	0.60 × 2.00	10.0 – 15.0	30	5,027	10 × 13	21.5 × 17	≤ 1000 W	T130 · T106
TP2721FN-5.0mH	5.0 mH	15	0.70 × 2.50	12.5 – 19.5	30	3,142	10 × 13	21.5 × 17	≤ 1000 W	T130 · T106
TP2721FN-4.0mH	4.0 mH	13	0.80 × 1.80	11.0 – 18.5	30	2,513	10 × 13	21.5 × 17	≤ 1000 W	T130 · T106
TP2820-10.5mH	10.5 mH	50	0.35 × 1.80	4.5 – 7.0	55	6,597	10 × 13	24.5 × 20	600 – 1000 W	T31×19×15 · UT35
TP2820-5.0mH	5.0 mH	45	0.40 × 1.50	4.5 – 8.0	60	3,142	10 × 13	24.5 × 20	600 – 1000 W	T31×19×15 · UT35
TP2820-3.0mH	3.0 mH	30	0.60 × 1.50	9.0 – 13.5	30	1,885	10 × 13	24.5 × 20	600 – 1000 W	T31×19×15 · UT35
TP2820-3.0mH	3.0 mH	35	0.50 × 1.50	8.0 – 9.0	50	1,885	10 × 13	24.5 × 20	600 – 1000 W	T31×19×15 · UT35
TP2820-2.0mH	2.0 mH	27	0.60 × 2.00	10.0 – 15.0	30	1,257	10 × 13	24.5 × 20	600 – 1000 W	T31×19×15 · UT35
TP2826-2.0mH	2.0 mH	19	0.70 × 2.50	12.0 – 18.0	20	1,257	14 × 10	—	600 – 1000 W	T31×19×15 · UT35

Part Number	Inductance	Turns	Wire Ø / W × T (mm)	Rated Current (A)	DCR max (mΩ)	|Z| @ 100 kHz (Ω)	Pin Pitch V (mm)	Pin Pitch H (mm)	Ref. Power (W)	Replaces Toroid (mm)
TP2826-2.0mH	2.0 mH	29	0.50 × 2.40	10.0 – 15.0	50	1,257	14 × 10	–	600 – 1000 W	T31×19×15 · UT35
TP2826-1.5mH	1.5 mH	16	1.00 × 2.00	14.0 – 26.0	50	942	14 × 10	–	600 – 1000 W	T31×19×15 · UT35
TP2918-5.0mH	5.0 mH	37	0.40 × 1.50	4.5 – 8.0	65	3,142	–	21.5 × 17	600 – 1000 W	T28×19×15 · T25×15×10 · T22×10×8 · T20×10×10 · UT35 · UT28 · UT24
TP3026FN-6.0mH	6.0 mH	17	0.70 × 2.50	10.5 – 17.0	30	3,770	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3026FN-5.0mH	5.0 mH	16	0.80 × 2.50	12.0 – 20.0	30	3,142	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-5.0mH	5.0 mH	36	0.50 × 2.40	10.0 – 15.0	30	3,142	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-2.8mH	2.8 mH	28	0.60 × 2.50	11.0 – 17.0	25	1,759	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-2.5mH	2.5 mH	27	0.70 × 2.50	13.0 – 21.0	20	1,571	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-2.0mH	2.0 mH	23	0.80 × 2.50	14.0 – 24.0	18	1,257	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-1.6mH	1.6 mH	19	1.00 × 2.50	18.0 – 30.0	12	1,005	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-1.4mH	1.4 mH	17	1.10 × 2.50	19.0 – 33.0	10	880	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3224-0.8mH	0.8 mH	15	1.30 × 2.50	23.0 – 39.0	8	503	17 × 8	24.9 × 29.8	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3225FN-18.0mH	18.0 mH	25	0.50 × 2.40	7.5 – 12.0	45	11,310	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3225FN-8.0mH	8.0 mH	16	0.80 × 2.50	12.0 – 20.0	30	5,027	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3225FN-8.0mH	8.0 mH	17	0.70 × 2.50	10.5 – 17.0	35	5,027	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3225FN-4.0mH	4.0 mH	11	1.10 × 2.50	17.5 – 25.0	30	2,513	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3530FN-8.0mH	8.0 mH	20	0.70 × 2.50	10.5 – 17.0	35	5,027	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3530FN-5.0mH	5.0 mH	13	1.10 × 2.50	17.5 – 25.0	30	3,142	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP3530FN-5.0mH	5.0 mH	18	0.80 × 2.50	12.0 – 20.0	30	3,142	17 × 8	–	600 – 2000 W	T36×23×15 · T37×22×15 · T35×20×15 · T33×18×15
TP4536-3.0mH	3.0 mH	18	1.20 × 3.50	29.0 – 50.0	6	1,885	22.2 × 16	–	1000 – 2000 W	T45 · T40 · T38
TP4536-2.5mH	2.5 mH	15	1.50 × 3.50	36.0 – 63.0	4	1,571	22.2 × 16	–	1000 – 2000 W	T45 · T40 · T38

† |Z| is calculated from the nominal inductance at 100 kHz (|Z| ≈ 2πfL) and is given for first-order comparison only — measured impedance versus frequency is available on request. Pin pitch V = vertical (standing) version, H = horizontal (laying) version, centre-to-centre in millimetres. "Replaces toroid" lists conventional toroidal sizes the part is intended to replace; reference only, not a guaranteed drop-in equivalent. Where one part number appears more than once, the builds differ in wire section and turns — quote both together with the part number (for example **TP1515-15.0mH**, wire 0.15 × 1.2 mm, 48 turns).

ORDERING INFORMATION

Part Numbers, Options & Notes

Every TP part number is built from the series prefix, the core size code, an optional construction code and the nominal inductance. The preceding pages list the standard variants; anything outside that list — other inductance values, wire sections, pin layouts or encapsulation — is tooled to order.

Quick Reference by Application Power

Application power	Core size class (mm)	Variants
Not stated	12 × 12, 15 × 15	3
20 – 60 W	10 × 8, 10 × 12, 12 × 10	16
≤ 36 W	10 × 10	5
≤ 60 W	12 × 12	6
60 – 120 W	14 × 10, 14 × 12, 14 × 15, 15 × 15	25
60 – 150 W	15 × 15, 16 × 16	6
80 – 150 W	18 × 12	6

Application power	Core size class (mm)	Variants
120 – 200 W	18 × 15, 19 × 18, 20 × 15, 20 × 18, 21 × 18	32
200 – 500 W	23 × 18	2
300 – 500 W	24 × 18	5
600 – 1000 W	24 × 18, 28 × 20, 28 × 26, 29 × 18	17
600 – 2000 W	30 × 26, 32 × 24, 32 × 25, 35 × 30	16
≤ 1000 W	27 × 21	3
1000 – 2000 W	45 × 36	2

Part Number Structure

TP	Series prefix
1515	Core size code, 15 × 15 mm class
FN / NY / E / Y	Core or construction option
- 15.0mH	Nominal inductance, mH or uH
Example	**TP1515FN-15.0mH** — 15 mH amorphous version in the 15 × 15 mm case

Construction Codes

(none)	MnZn ferrite 12K, flat-wire winding — standard
FN	Amorphous / nanocrystalline core, high permeability
NY	NiZn ferrite core, low winding capacitance, wide-band suppression
E	Combined common mode and differential mode winding
Y	Round-wire winding on MnZn core, toroid replacement type

Notes

- Standard core material is MnZn 12K; 5K, 37K and 310K grades are available on request.
- Inductance is quoted as the nominal value at low signal level. Tolerance and measurement conditions are fixed on the datasheet of each part number.
- Rated current is quoted as an operating window consistent with the stated maximum DCR; the final rating is confirmed against the customer's ambient temperature and cooling.
- Pin pitch and case outline drawings are issued with the quotation or the datasheet.
- RoHS compliant. Clearance, creepage and insulation coordination to IEC 62368-1 / IEC 61558-1 on request.

Switch-mode power supplies · AC/DC front ends · Motor drives · Inverters · EV chargers · UPS · Servo drives · Industrial controllers · Medical equipment

Need a variant that is not in the table?

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