



**YUXIANG**

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China Professional Ferrite Core Supplier

## T CORES



### Introduce of high permeability T cores:

T-core is the core type geometry of choice for optimizing performance. A toroid of round cross-section offers better performance than one of rectangular cross-section, but for practical and economic reasons, toroid cores of rectangular cross-section are much more prevalent. The symmetry of ferrite T core circular geometry minimizes the amount of external magnetic flux produced. Because of its circular nature, the magnetic path of a toroid is an unbroken continuous path unless intentionally broken. There is no air gap in the magnetic path (unless intentionally added) hence optimal use can be made of high permeability materials.

### Feature of high permeability T cores:

Ferrite T core has accomplished initial permeability, it enable transformers to be more compact and thinner. In addition, the numbers of winding turn can be reduced.

Type	Dimensions(mm)		
	A	B	C
T4×2×2	4.0±0.3	2.0±0.3	2.0±0.3
T5×3×5	5.0±0.3	3.0±0.3	5.0±0.3
T6×3×4	6.0±0.3	3.0±0.3	4.0±0.3
T6.3×4×4	6.3±0.3	3.8±0.3	4.0±0.3
T7×4×4	7.0±0.3	4.0±0.3	4.0±0.3
T9×5×3	9.0±0.3	5.0±0.3	3.0±0.3
T10×6×5	10.0±0.4	6.0±0.4	5.0±0.3
T10×5×5	10.0±0.4	5.0±0.4	5.0±0.3
T12×6×4	12.0±0.4	6.0±0.4	4.0±0.3
T12.7×7.8×5	12.7±0.4	7.8±0.3	5.0±0.3
T13×7×5	13.0±0.5	7.0±0.4	5.0±0.3
T14×7×5	14.0±0.5	7.0±0.4	5.0±0.3
T16×12×8	16.0±0.5	12.0±0.4	8.0±0.3
T16×9×8	16.0±0.5	9.0±0.4	8.0±0.3
T16×9.5×8	16.0±0.5	9.5±0.4	8.0±0.3
T17×10×8	17.5±0.5	10.0±0.3	8.0±0.3
T18×10×10	18.0±0.5	10.0±0.4	10.0±0.3
T22×14×12	22.0±0.6	14.0±0.4	12.0±0.3

T22×10×10	22.0±0.6	10.0±0.4	10.0±0.3
T22.1×13.7×6.5	22.1±0.3	13.7±0.3	6.5±0.3
T25×15×7	25.0±0.6	15.0±0.4	7.0±0.3
T25×15×10	25.0±0.6	15.0±0.4	10.0±0.3
T27.5×17.5×7	27.5±0.6	17.5±0.5	7.0±0.4
T28×14×11	28.0±0.6	14.0±0.5	11.0±0.4
T30×11×8	30.0 +0 -0.8	11.0 +0.5 -0	8.0±0.4
T31×13×16	31.0±0.6	13.0±0.5	16.0±0.4
T31×19×13	31.0±0.6	19.0±0.5	13.0±0.4
T31×19×6	31.0±0.6	19.0±0.5	6.0±0.3
T68×44×13.5	68.0±1.5	44.0±1.2	13.5±1.0
T31×20×15	31.0±0.6	20.0±0.5	15.0±0.3
T36×23×19	36.0±0.6	23.0±0.5	19.0±0.3
T37×22×15.5	37.0±0.5	23.0±0.5	15.5±0.5
T50×35×20	50.0±0.8	35.0±0.7	20.0±0.5
T38×19×13	38.0±0.7	19.0±0.6	13.0±0.5
T50×25×20	50.0±0.8	25.0±0.7	20.0±0.5

Type	Core parameter				weight (g/pr.)	Al(nH/N <sup>2</sup> )±25%		
	C1 (mm-1)	Ae (mm2)	Ie (mm)	Ve (mm3)		F5	F7	F10
T4×2×2	4.55	1.9	8.74	16.73	0.09	1330	1860	2200min
T5×3×5	2.55	4.9	12.0	58.93	0.3	2500	3500	4000min
T6×3×4	2.35	5.8	13.1	75.33	0.37	2660	3730	4300min
T6.3×4×4	5.05	3.1	15.2	46.53	0.26	1200	1400	1800min
T7×4×4	2.85	5.8	16.4	95.93	0.48	2180	3050	3500min
T9×5×3	3.05	5.8	20.8	121.1	0.7	1710	2400	2760min
T10×6×5	2.55	9.8	24.1	235.6	1.2	2500	3500	4000min
T10×5×5	1.7	12.9	22.2	286.1	1.5	3330	4660	5300min
T12×6×4	2.35	11.5	26.1	301.3	1.6	2660	3730	4300min
T12.7×7.8×5	2.65	12.0	31.0	371.8	1.9	2390	3350	3850min
T13×7×5	2.05	14.5	29.5	428.6	2.2	3000	4200	4800min
T14×7×5	1.85	16.8	30.5	512.7	2.6	3330	4660	5360min
T16×12×8	2.75	15.9	43.4	689.3	3.4	2280	3200	3680min
T16×9×8	1.45	27.2	37.2	1012.9	5.0	4300	6000	6000min
T16×9.5×8	1.5	25.4	38.3	973.5	5.2	4000	5200	500min9
T17×10×8	1.55	27.4	40.5	1107.3	5.5	4000	5200	5800min
T18×10×10	1.25	38.9	41.5	1614.9	7.9	5710	8000	9200min
T22×14×12	1.25	47.2	54.7	2879.9	13.5	5330	7460	8560min
T22×10×10	0.88	57.0	45.4	2587.8	14	7050	9250	10000min
T22.1×13.7×6.5	2.0	26.8	54.1	1450.4	7.2	3050	4290	4700min
T25×15×7	1.85	34.2	60.2	2061.1	12	3500	4900	5630min
T25×15×10	0.98	63.6	60.2	3827.8	20.5	5000	7000	8000min
T27.5×17.5×7	2.0	34.4	68.3	2351.4	13	3050	4280	4700min
T28×14×11	0.8	74.0	61.0	4511.3	23.5	7650	10000	12000min
T30×11×8	0.8	69.9	54.7	3828.5	20.5	7600	10000	12000min

T31×13×16	0.5	135.3	61.1	8268.4	41.5	11500	15000	18000min
T31×19×13	1.0	76.53	75.5	5771.9	29	6240	8730	10040min
T31×19×6	2.1	53.33	75.5	2663.9	15	2880	4030	4630min
T68×44×13.5					137	5880	8230	
T31×20×15	1.0	81.23	77.6	6300.7	34	6180	8250	9050min
T36×23×19	0.7	121.5	89.6	10888.1	55	8370	11720	13480min
T37×22×15.5	0.9	106.5	90.8	9667.1	48	6880	9250	10050
T50×35×20	0.9	148.4	130.7	19402.7	98	7050	9880	11360
T38×19×13	0.7	118.7	82.7	9820	49	8660	12130	13950
T50×25×20	0.5	240.2	108.9	26156	127	13330	18660	21460

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