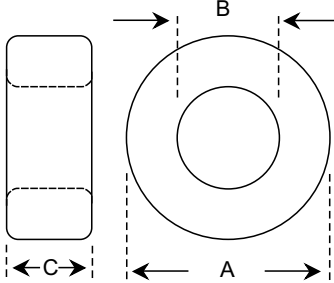


SMALL RING CORES



Coating Details

Small ring cores for SMPUS, Pulse and Suppression applications

These are available coated in epoxy or parylene, the latter only available up to a maximum OD of 9.53mm.

Breakdown Voltage

The dielectric breakdown strength and coating thickness are as follows:-

Epoxy 2kV DC, thickness 0.25mm approx. per surface

Parylene 1kV (double layer) >0.026mm per surface

The coating may cause a detrimental effect on the core permeability and hence on the A_L

This can be some 20% lower than the uncoated bottom limit

PART NO.	DIMENSIONS (mm)			EFFECTIVE PARAMETER			A_L +30% -20%					
	A	B	C	Le(mm)	Ae(mm ²)	Ve(mm ³)	KN1000	KM22	KM4	KM5	KM5	Km10
T2.5X1.3X0.9	2.54 +/- 0.2	1.27 +/- 0.2	0.89 +/- 0.2	5.530	0.540	3.000						800 min
T2.5X1.3X1.0	2.54 +/- 0.2	1.27 +/- 0.2	1.00 +/- 0.2	5.530	0.600	3.340				540-884		980-1820
T2.5X1.3X1.3	2.54 +/- 0.2	1.27 +/- 0.2	1.27 +/- 0.2	5.530	0.780	4.290	150-210			664-1079		1220-2288
T3X1.3X1.3	3.05 +/- 0.2	1.30 +/- 0.2	1.30 +/- 0.2	5.980	1.060	6.300				710-1180		1210-2254
T3X1.3X2.0	3.05 +/- 0.2	1.30 +/- 0.2	2.03 +/- 0.2	5.980	1.360	8.400				1100-1778		
T3.5X1.8X1	3.50 +/- 0.2	1.78 +/- 0.2	0.89 +/- 0.2	7.620	0.680	5.240	120 min			483-786		846-1572
T3.5X1.8X1.3	3.50 +/- 0.2	1.78 +/- 0.2	1.27 +/- 0.2	7.700	1.060	8.160	110-184			668-1085		
T3.5X1.8X1.5	3.50 +/- 0.2	1.78 +/- 0.2	1.52 +/- 0.2	7.700	1.097	8.440	132-221		640-1040			
T3.5X1.8X1.8	3.50 +/- 0.2	1.78 +/- 0.2	1.78 +/- 0.2	7620	1.416	10.780				960-1560		1671-3100
T3.5X1.8X2.0	3.50 +/- 0.2	1.78 +/- 0.2	2.00 +/- 0.2	7.700	1.640	12.630			856-1391			1881-3494
T3.5X1.8X2.2	3.50 +/- 0.2	1.78 +/- 0.2	2.20 +/- 0.2	7.700	1.840	14.160			950-1560			
T4X1.8X1.5	3.94 +/- 0.2	1.78 +/- 0.2	1.5 +/- 0.2	8.210	1.530	10.530				944-1534		
T4X1.8X2.5	3.94 +/- 0.2	1.78 +/- 0.2	2.54 +/- 0.2	8.210	2.350	16.440			1259-2046			2752-5112
T4X2X0.9	3.94 +/- 0.2	2.21 +/- 0.2	0.89 +/- 0.2	8.920	0.740	12.050				405-650		680-1200
T4X2X1.0	3.94 +/- 0.2	2.21 +/- 0.2	1.27 +/- 0.2	9.014	0.975	8.788	90-150			550-897		1027-1907
T4X2X2.0	4.0 +/- 0.2	2.00 +/- 0.2	2.00 +/- 0.2	8.700	1.910	16.610	147-245	410-680	824-1339			1890-3510
T4X2X2.2	4.0 +/- 0.2	2.00 +/- 0.2	2.20 +/- 0.2	8.700	2.110	18.350			1000-1651			
T4X2X2.5	3.94 +/- 0.2	2.21 +/- 0.2	2.54 +/- 0.2	9.190	2.100	19.290	187-312					2054-3814
T5.8X3X1.5	5.84 +/- 0.3	3.05 +/- 0.25	1.52 +/- 0.2	13.030	2.050	26.77		320-480	420-750	800-1300	1300-1600	1600-2971
T6X3X1.5	6.35 +/- 0.3	3.18 +/- 0.25	1.52 +/- 0.2	13.840	2.315	32.05		319-519		840-1250	1190-1934	
T6X3X3	5.84 +/- 0.3	3.05 +/- 0.25	3.05 +/- 0.25	13.030	4.108	53.52		640-1040	1100-1800	1600-2600	2250-3300	2800-5200
T7X3X5	7.60 +/- 0.3	3.20 +/- 0.25	4.80 +/- 0.3	14.970	9.960	149.10				3334-5434	5016-8151	5811-10792
T8X4X4	8.00 +/- 0.3	4.00 +/- 0.3	4.00 +/- 0.3	17.400	7.680	134.00				2133-3714	3200-5200	3700-6890
T9X5X3	9.52 +/- 0.3	4.75 +/- 0.3	3.18 +/- 0.25	20.706	7.286	150.87	353-574	672-1092		1771-2878	2200-4151	3200-5748
T9X5X5	9.52 +/- 0.3	4.75 +/- 0.3	4.75 +/- 0.3	20.716	10.905	225.90		1040-1690		2645-4299		4620-8580
T10X6X3	10.00 +/- 0.3	6.00 +/- 0.3	3.00 +/- 0.3	24.100	5.900	142.20		468-760				
T10X6X4	10.00 +/- 0.3	6.00 +/- 0.3	4.00 +/- 0.3	25.100	8.000	200.80		640-1040		1600-2600	2240-3640	

RING CORES

PART NO.	DIMENSIONS (mm)			EFFECTIVE PARAMETER			WEIGHT (gm)	A _L ^{+30%} _{-20%}					
	A	B	C	Le(mm)	Ae(mm ²)	Ve(mm ³)		KM2	KM22	KM5	KM7	KM10	
T29-15	29.6 ^{+0.7} _{-0.7}	18.4 ^{+0.6} _{-0.6}	14.9 ^{+0.4} _{-0.4}	72.60	81.90	5945.9	29	2850	3000	7100			
T29-10	29.6 ^{+0.7} _{-0.7}	18.4 ^{+0.6} _{-0.6}	14.9 ^{+0.4} _{-0.4}	72.60	81.90	5947	29	2850	3000	7100			
T26-15	26.0 ^{+0.55} _{-0.55}	14.5 ^{+0.35} _{-0.35}	15.0 ^{+0.3} _{-0.3}	60.10	83.80	5036	25.2	3500	3650	8750	12250		
T26-10	26.0 ^{+0.55} _{-0.55}	14.5 ^{+0.35} _{-0.35}	10.0 ^{+0.3} _{-0.3}	63.60	57.50	3657	15.8	2250	2350	5700	7950		
T26-07	26.0 ^{+0.55} _{-0.55}	14.5 ^{+0.35} _{-0.35}	7.5 ^{+0.3} _{-0.3}	60.10	41.90	2518.1	12.8	1750	1850	4350			
T25-15	25.0 ^{+0.5} _{-0.5}	15.05 ^{+0.5} _{-0.5}	15.0 ^{+0.5} _{-0.5}	61.50	74.60	4587	24.0	3050		7600			
T25-13	25.0 ^{+0.5} _{-0.5}	15.05 ^{+0.5} _{-0.5}	13.0 ^{+0.5} _{-0.5}	62.30	65.40	4074	19.3	2650	2750	6600	9250	13200	
T25-12	25.0 ^{+0.5} _{-0.5}	15.05 ^{+0.5} _{-0.5}	12.0 ^{+0.5} _{-0.5}	62.30	58.20	3626	18.5	2400		6000			
T25-10	25.0 ^{+0.5} _{-0.5}	15.05 ^{+0.5} _{-0.5}	10.0 ^{+0.5} _{-0.5}	61.50	49.70	3056	14.8	2050		5000	7100	10217	
T22-12A	22.1 ^{+0.25} _{-0.25}	13.7 ^{+0.25} _{-0.25}	12.7 ^{+0.25} _{-0.25}	54.15	53.34	2888	14.0	2450	2550	6200	8650		
T22-08	22.1 ^{+0.25} _{-0.25}	13.7 ^{+0.25} _{-0.25}	8.0 ^{+0.25} _{-0.25}	54.15	34.80	1884	9.0	1600	1700	4000	5350		
T22-06	22.1 ^{+0.25} _{-0.25}	13.7 ^{+0.25} _{-0.25}	6.35 ^{+0.25} _{-0.25}	54.15	26.17	1417	6.8	1200	1300	3000	4250	6073	
T21-12	21.0 ^{+0.5} _{-0.5}	13.0 ^{+0.5} _{-0.5}	12.0 ^{+0.5} _{-0.5}	51.10	44.7	2284	11.5	2200	2300	5500			
T21-06	21.0 ^{+0.5} _{-0.5}	13.0 ^{+0.5} _{-0.5}	6.0 ^{+0.5} _{-0.5}	51.40	23.50	1207	5.8	1150		2800			
T20-10	20.0 ^{+0.4} _{-0.4}	10.0 ^{+0.25} _{-0.25}	10.0 ^{+0.4} _{-0.4}	43.60	48.00	2092	11.50	2750	2900	6900	9650		
T20-07	20.0 ^{+0.4} _{-0.4}	10.0 ^{+0.25} _{-0.25}	7.0 ^{+0.3} _{-0.3}	43.60	33.60	1464.9	7.8	1950	2050	4850		9700	
T18-07	17.5 ^{+0.5} _{-0.5}	11.05 ^{+0.3} _{-0.3}	7.0 ^{+0.2} _{-0.2}	44.20	20.60	910	5.0	1200		2900			
T16-06	16.0 ^{+0.4} _{-0.4}	9.6 ^{+0.3} _{-0.3}	6.3 ^{+0.2} _{-0.2}	38.70	20.00	774	4.10	1250		3200			
T16-05	16.0 ^{+0.4} _{-0.4}	9.6 ^{+0.3} _{-0.3}	5.0 ^{+0.2} _{-0.2}	38.50	15.70	604	3.30	1025	1075	2600	3600	5125	
T14-09	14.0 ^{+0.3} _{-0.3}	9.0 ^{+0.2} _{-0.2}	9.0 ^{+0.2} _{-0.2}	35.00	22.10	773.5	3.80	1600	1650	3950			
T14-06	14.0 ^{+0.3} _{-0.3}	9.0 ^{+0.2} _{-0.2}	6.0 ^{+0.3} _{-0.3}	35.00	14.80	518	2.7	1050	1100	2650			
T14-05	14.0 ^{+0.3} _{-0.3}	9.0 ^{+0.2} _{-0.2}	4.9 ^{+0.2} _{-0.2}	35.00	12.10	423	2.00	880	920	2150	2800		
T13-06A	12.9 ^{+0.25} _{-0.25}	7.9 ^{+0.2} _{-0.2}	6.2 ^{+0.2} _{-0.2}	31.40	15.20	477	2.20	1250	1280	3050	4000	6100	
T13-06	13.0 ^{+0.4} _{-0.4}	7.0 ^{+0.3} _{-0.3}	6.0 ^{+0.3} _{-0.3}	29.5	17.40	513	2.6	1450	1550	3700			
T13-05	13.0 ^{+0.4} _{-0.4}	7.0 ^{+0.3} _{-0.3}	5.0 ^{+0.3} _{-0.3}	30.90	14.60	451	2.10	1200		3000			
T13-03	13.0 ^{+0.4} _{-0.4}	7.0 ^{+0.3} _{-0.3}	3.2 ^{+0.2} _{-0.2}	29.50	9.30	274	1.20	800	850	1950	2750		

RING CORES

PART NO.	DIMENSIONS (mm)			EFFECTIVE PARAMETER			WEIGHT (gm)	A _L ^{+30%} _{-20%}					
	A	B	C	Le(mm)	Ae(mm ²)	Ve(mm ³)		KM2	KM22	KM5	KM7	KM10	
T202-25	202.0 +4.0 -4.0	153.0 +3.0 -3.0	25.0 +1.0 -1.0	550.5	608.6	307647.3	1477		2750	5300			
T152-20	152.0 +5.0 -5.0	68.0 +1.4 -1.4	20.0 +0.4 -0.4	310.9	796.1	247507.5	1187	6400	6700	16000			
T152-15	152.0 +5.0 -5.0	104.0 +3.6 -3.6	15.0 +0.5 -0.5	392.6	355.7	139647.9	671	2300	2400	5700	7950		
T140-25	140.0 +3.0 -3.0	103.0 +2.0 -2.0	55.0 +1.0 +1.0	375.8	458.9	172454.6	827.8	3000	3200	7600	10700		
T107-25	107.0 +2.0 -2.0	65.0 +1.3 -1.3	25.0 +0.7 -0.7	259.00	514.2	133177.8	640.0	5000	5200	6572			
T102-25	102.0 +2.0 -2.0	65.8 +1.3 -1.3	25.0 +0.7 -0.7	255.32	445.3	113694.0	546	2630	2892	124000			
T102-15	102.0 +2.0 -2.0	65.8 +1.3 -1.3	15.0 +0.5 -0.5	255.32	267.2	68219.2	327	2630	2892	6572	9000		
T85-30	85.0 +1.5 -1.5	62.0 +1.5 -1.5	30.0 +1.0 -1.0	227.10	342.20	77713.6	360	3800	4000	9300	132000		
T63-25	63.0 +1.3 -1.3	38.0 +0.8 -0.8	25.0 +0.5 -0.5	152.08	305.93	46525.3	236	5050	5550	12600	17700		
T58-18	58.3 +1.0 -1.0	40.8 +0.8 -0.8	17.6 +0.5 -0.5	152.40	146.30	22296	110	2400	2550	6000			
T49-19	49.0 +1.0 -1.0	31.8 +0.7 -0.7	19.0 +0.5 -0.5	123.10	160.90	19806.8	100	3300	3450	8200			
T36-17	36.0 +0.7 -0.7	23.0 +0.5 -0.5	17.0 +0.4 -0.4	89.70	108.70	9750.4	49.5	3050	3200	7600			
T36-15	36.0 +0.7 -0.7	23.0 +0.5 -0.5	15.0 +0.4 -0.4	89.60	95.89	8591.7	43	2650	2850	6650	9350		
T34-21	34.0 +0.7 -0.7	21.8 +0.5 -0.5	21.0 +0.4 -0.4	85.50	127.00	10858.5	54	3750	3900	9300			
T31-15	31.5 +1.0 -1.0	19.0 +0.6 -0.6	15.0 +0.4 -0.4	76.00	93.80	7128.8	35	3100	3250	7700			
T31-13A	31.0 +0.8 -0.5	19.0 +0.6 -0.6	13.0 +0.5 -0.5	75.70	77.40	5859.1	32.5	2550	2700	6850	8300		
T31-13	31.5 +1.0 -1.0	19.0 +0.6 -0.6	13.5 +0.4 -0.4	76.00	82.60	6277.6	33	2750	2850	6850			
T31-12	31.5 +1.0 -1.0	19.0 +0.6 -0.6	12.5 +0.4 -0.4	76.00	76.50	5814.0	29.0	2500		6300			
T31-09	31.5 +1.0 -1.0	19.0 +0.6 -0.6	9.5 +0.4 -0.4	76.00	58.10	4415.6	22.6	1900	2000	4800			
T31-08	31.5 +1.0 -1.0	19.0 +0.6 -0.6	8.0 +0.4 -0.4	76.00	48.90	3716.4	18.8						

Note: Toroidal cores can be produced in a range of sizes, in a range of materials. If the toroid you require is not listed above contact sales to discuss your requirement.