IRON POWDER TOROIDAL CORES (For Resonant Circuits)

MATERIAL 12	Permeabilty 4		Freq. Range 50 MHz - 200 MHz			Color - Green & White	
Core number	O.D. (inches)	I.D. (inches)	Hgt. (inches)	ℓ_e (cm)	A_e $(cm)^2$	V_e $(cm)^3$	A_L Value μh/100 turns
T-12-12	.125	.062	.050	.74	.010	.007	7.5
T-16-12	.160	.078	.060	.95	.016	.015	8.0
T-20-12	.200	.088	.070	1.15	.025	.029	10.0
T-25-12	.255	.120	.096	1.50	.042	.063	12.0
T-30-12	.307	.151	.128	1.83	.065	.119	16.0
T-37-12	.375	.205	.128	2.32	.070	.162	15.0
T-44-12	.440	.229	.159	2.67	.107	.286	18.5
T-50-12	.500	.303	.190	3.03	.121	.367	18.0
T-68-12	.690	.370	.190	4.24	.196	.831	21.0
T-80-12	.795	.495	.250	5.15	.242	1.246	22.0
T-94-12	.942	.560	.312	6.00	.385	2.310	32.0

Note: The #17 material offers greater temperature stability than #12 materials, but #12 material can provide higher 'Q'.

MATERIAL 15	Permeabilty 25		Freq. Range 0.1 MHz - 2. MHz			Color - Red & White	
Core number	O.D. (inches)	I.D. (inches)	Hgt. (inches)	ℓ_e (cm)	A_e $(cm)^2$	V_e $(cm)^3$	A_L Value μh/100 turns
T-12-15	.125	.062	.050	.74	.010	.007	50
T-16-15	.160	.078	.060	.95	.016	.015	55
T-20-15	.200	.088	.070	1.15	.025	.029	65
T-25-15	.255	.120	.096	1.50	.042	.063	85
T-30-15	.307	.151	.128	1.83	.065	.119	93
T-37-15	.375	.205	.128	2.32	.070	.162	90
T-44-15	.440	.229	.159	2.67	.107	.286	160
T-50-15	.500	.303	.190	3.03	.121	.367	135
T-68-15	.690	.370	.190	4.24	.196	.831	180
T-80-15	.795	.495	.250	5.15	.242	1.246	170
T-94-15	.942	.560	.312	6.00	.385	2.310	200
T-106-15	1.060	.570	.437	6.50	.690	4.485	345
T-130-15	1.300	.780	.437	8.29	.730	6.052	250
T-157-15	1.570	.950	.570	10.05	1.140	11.457	360

MATERIAL 17	Permeabilty 4		Freq. Range 20 MHz - 200 MHz			Color - Blue & Yellow	
Core number	O.D. (inches)	I.D. (inches)	Hgt. (inches)	ℓ_e (cm)	A_e $(cm)^2$	V_e $(cm)^3$	A_L Value μh/100 turns
T-12-17	.125	.062	.050	.75	.010	.008	7.5
T-16-17	.160	.078	.060	.93	.015	.0141	8.0
T-20-17	.200	.088	.070	1.15	.025	.026	10.0
T-25-17	.255	.120	.096	1.50	.042	.055	12.0
T-30-17	.307	.151	.128	1.83	.065	.110	16.0
T-37-17	.375	.205	.128	2.30	.070	.147	15.0
T-44-17	.440	.229	.159	2.67	.107	.266	18.5
T-50-17	.500	.303	.190	3.03	.121	.358	18.0
T-68-17	.690	.370	.190	4.24	.196	.759	21.0
T-80-17	.795	.495	.250	5.14	.231	1.190	22.0
T-90-17	.942	.560	.312	6.00	.385	2.310	32.0

MATERIAL 26 See AC Line Filter and DC Choke section.