

# INDUCTANCE-TURNS CHART, FERRITE TOROIDS

## MATERIAL #43

turns count > core number	$A_L^*$	10	20	30	40	50	60	70	80	90	100	
Inductance in millihenries												
FT-23	-43	158	.018	.075	.169	.300	.470	.677	.921	1.20	1.52	1.88
FT-37	-43	350	.042	.168	.378	.672	1.050	1.510	2.060	2.69	3.40	4.20
FT-50	-43	440	.052	.209	.471	.836	1.300	1.880	2.560	3.35	4.24	5.23
FT-50A	-43	480	.057	.228	.513	.912	1.430	2.050	2.790	3.65	4.62	5.70
FT-50B	-43	965	.110	.456	1.030	1.820	2.850	4.100	5.590	7.30	9.23	11.4
FT-82	-43	470	.056	.224	.503	.894	1.400	2.010	2.740	3.58	4.53	5.59
FT-114	-43	510	.060	.241	.543	.965	1.510	2.170	2.950	3.86	4.88	6.03
FT-140	-43	885	.095	.380	.857	1.520	2.380	3.430	4.660	6.09	7.71	9.52
FT-240	-43	1075	.123	.494	1.110	1.970	3.090	4.440	6.050	7.90	9.96	12.3

## MATERIAL #61

turns count > core number	$A_L^*$	10	20	30	40	50	60	70	80	90	100	
Inductance in millihenries												
FT-23	-61	24.8	.002	.010	.022	.040	.063	.089	.122	.159	.201	.248
FT-37	-61	55.3	.006	.022	.050	.088	.138	.199	.271	.354	.448	.553
FT-50	-61	68.8	.007	.028	.062	.110	.172	.248	.337	.440	.557	.688
FT-50A	-61	75.0	.008	.030	.068	.120	.186	.270	.366	.480	.608	.750
FT-50B	-61	150.0	.015	.060	.135	.240	.375	.540	.735	.960	1.220	1.500
FT-82	-61	73.3	.007	.029	.066	.117	.183	.264	.359	.469	.594	.733
FT-114	-61	79.3	.008	.032	.071	.127	.198	.285	.389	.508	.642	.793
FT-114A	-61	146.0	.015	.058	.131	.233	.365	.526	.715	.934	1.180	1.460
FT-140	-61	140.0	.014	.056	.126	.224	.350	.504	.686	.896	1.130	1.400
FT-240	-61	171.0	.017	.068	.154	.274	.428	.616	.838	1.090	1.390	1.710

## MATERIAL #67

turns count > core number	$A_L^*$	10	20	30	40	50	60	70	80	90	100	
Inductance in millihenries												
FT-23	-67	7.9	—	.003	.007	.013	.020	.028	.038	.051	.064	.079
FT-37	-67	19.7	.002	.008	.018	.032	.049	.071	.097	.126	.160	.197
FT-50	-67	22.0	.002	.009	.020	.035	.055	.079	.108	.141	.178	.220
FT-50A	-67	24.0	.002	.020	.033	.038	.060	.086	.112	.154	.194	.240
FT-50B	-67	48.0	.005	.019	.043	.077	.120	.173	.235	.307	.389	.480
FT-82	-67	22.4	.002	.009	.020	.036	.056	.081	.110	.143	.181	.224
FT-114	-67	25.4	.003	.010	.023	.041	.064	.091	.124	.163	.206	.254
FT-140	-67	45.0	.005	.018	.041	.072	.118	.162	.220	.288	.365	.450
FT-240	-67	53.0	.005	.021	.048	.084	.133	.199	.260	.339	.430	.530

## MATERIAL #68

turns count > core number	$A_L^*$	10	20	30	40	50	60	70	80	90	100	
Inductance in millihenries												
FT-23	-67	7.9	—	.003	.007	.013	.020	.028	.038	.051	.064	.079
FT-23	-68	4.0	—	.002	.004	.006	.010	.014	.020	.026	.032	.040
FT-37	-68	8.8	—	.006	.008	.014	.022	.032	.043	.056	.071	.088
FT-50	-68	11.0	.001	.004	.010	.018	.028	.040	.054	.070	.089	.110
FT-50A	-68	12.0	.001	.005	.011	.019	.030	.043	.059	.077	.097	.117
FT-82	-68	11.7	.001	.005	.011	.019	.029	.042	.057	.075	.095	.117
FT-114	-68	12.7	.001	.005	.011	.020	.032	.046	.062	.081	.123	.127

\*  $A_L$  value in mh/1000 turns