# FERRITE TOROIDAL CORES

**Physical Dimensions - Ferrite Toroids**

| Core Size | OD (inches) | ID (inches) | Hgt (inches) | Mean length (cm) | Cross Sect (cm2) | Volume (cm3) |
|---|---|---|---|---|---|---|
| FT-23 | .230 | .120 | .060 | 1.34 | .021 | .029 |
| FT-37 | .375 | .187 | .125 | 2.15 | .076 | .163 |
| FT-50 | .500 | .281 | .188 | 3.02 | .133 | .401 |
| FT-50 -A | .500 | .312 | .250 | 3.68 | .152 | .559 |
| FT-50 -B | .500 | .312 | .500 | 3.18 | .303 | .963 |
| FT-82 | .825 | .520 | .250 | 5.26 | .246 | 1.294 |
| FT-87 | .870 | .540 | .250 | 5.41 | .261 | 1.414 |
| FT-87 -A | .870 | .540 | .500 | 5.42 | .315 | 1.710 |
| FT-114 | 1.142 | .750 | .295 | 7.42 | .375 | 2.783 |
| FT-114-A | 1.142 | .750 | .545 | 7.42 | .690 | 5.120 |
| FT-140 | 1.400 | .900 | .500 | 9.02 | .806 | 7.270 |
| FT-140A | 1.400 | .900 | .590 | 9.00 | .810 | 7.300 |
| FT-150 | 1.500 | .750 | .250 | 8.30 | .591 | 4.905 |
| FT-150-A | 1.500 | .750 | .500 | 8.30 | 1.110 | 9.213 |
| FT-193 | 1.932 | 1.250 | .625 | 12.31 | 1.360 | 16.742 |
| FT-193-A | 1.932 | 1.250 | .750 | 12.31 | 1.620 | 19.942 |
| FT-240 | 2.400 | 1.400 | .500 | 14.40 | 1.570 | 22.608 |

**$A_L$ Values (mH/1000 turns) - Ferrite Toroids**

For complete part number add mix number to core size below

| Material > core size | 43 $\mu$=800 | 61 $\mu$=125 | 63 $\mu$=40 | 67 $\mu$=40 | 68 $\mu$=20 | 75 $\mu$=5000 | 77 $\mu$=2000 | F $\mu$=3000 | J $\mu$=5000 |
|---|---|---|---|---|---|---|---|---|---|
| FT-23 ( ) | 188 | 24.8 | 7.9 | 7.8 | 4.0 | 990 | 396 | NA | NA |
| FT-37 ( ) | 420 | 55.3 | 17.7 | 17.7 | 8.8 | 2210 | 884 | NA | NA |
| FT-50 ( ) | 440 | 68.0 | 22.0 | 22.0 | 11.0 | 2750 | 1100 | NA | NA |
| FT-50A- ( ) | 480 | 75.0 | 24.0 | 24.0 | 12.0 | 2990 | 1200 | NA | NA |
| FT-50B- ( ) | 1140 | 150.0 | 48.0 | 48.0 | 12.0 | NA | 2400 | NA | NA |
| FT-82 ( ) | 557 | 73.3 | 22.4 | 22.4 | 11.7 | 3020 | 1170 | NA | NA |
| FT-87 ( ) | NA | NA | NA | NA | NA | NA | NA | 180 | 3020 |
| FT-87A- ( ) | NA | NA | NA | NA | NA | NA | NA | 3700 | 6040 |
| FT-114 ( ) | 603 | 79.3 | 25.4 | 25.4 | 12.7 | 3170 | 1270 | 1902 | 3170 |
| FT-114A ( ) | NA | 146.0 | NA | NA | NA | NA | 2340 | NA | NA |
| FT-140- ( ) | 952 | 140.0 | 45.0 | 45.0 | NA | 6736 | 2250 | NA | 6736 |
| FT-150- ( ) | NA | NA | NA | NA | NA | NA | NA | 2640 | * 4400 |
| FT-150A ( ) | NA | NA | NA | NA | NA | NA | NA | 5020 | 8370 |
| FT-193- ( ) | NA | NA | NA | NA | NA | NA | NA | * 3640 | * 6065 |
| FT-193A ( ) | NA | NA | NA | NA | NA | NA | NA | 4460 | 7435 |
| FT-240 ( ) | 1240 | 173.0 | 53.0 | 53.0 | NA | 6845 | 3130 | NA | 6845 |