

| Part number     | Dimension(mm) |            |            | Cores Constants           |            |                          |                          |               |
|-----------------|---------------|------------|------------|---------------------------|------------|--------------------------|--------------------------|---------------|
|                 | A             | B          | C          | C1<br>(mm <sup>-1</sup> ) | Le<br>(mm) | Ae<br>(mm <sup>2</sup> ) | Ve<br>(mm <sup>3</sup> ) | Weight<br>(g) |
| T4x2x1          | 4.0 ± 0.15    | 2.0 ± 0.15 | 1.0 ± 0.15 | 9.42                      | 9.42       | 1.00                     | 9.42                     | 0.046         |
| T4x2x2          | 4.0 ± 0.15    | 2.0 ± 0.15 | 2.0 ± 0.15 | 4.71                      | 9.42       | 2.00                     | 18.84                    | 0.092         |
| T5.84x3.05x3.05 | 5.84 ± 0.2    | 3.05 ± 0.2 | 3.05 ± 0.2 | 3.28                      | 13.96      | 4.25                     | 59.33                    | 0.092         |
| T6x3x1.5        | 6.0 ± 0.3     | 3.0 ± 0.2  | 1.5 ± 0.2  | 6.28                      | 14.13      | 2.25                     | 31.79                    | 0.156         |
| T6x3x2          | 6.0 ± 0.3     | 3.0 ± 0.2  | 2.0 ± 0.2  | 4.71                      | 14.13      | 3.00                     | 42.39                    | 0.21          |
| T6x3x3          | 6.0 ± 0.3     | 3.0 ± 0.2  | 3.0 ± 0.2  | 3.14                      | 14.13      | 4.50                     | 63.59                    | 0.31          |
| T8x4x2          | 8 ± 0.3       | 4.0 ± 0.3  | 2.0 ± 0.3  | 4.71                      | 18.85      | 4.00                     | 75.40                    | 0.40          |
| T8x4x4          | 8.0 ± 0.3     | 4.0 ± 0.3  | 4.0 ± 0.3  | 2.36                      | 18.85      | 8.00                     | 150.80                   | 0.80          |
| T9x5x3          | 9.0 ± 0.3     | 5.0 ± 0.3  | 3.0 ± 0.3  | 3.72                      | 22.30      | 6.00                     | 133.80                   | 0.65          |
| T9x5.3x3        | 9.0 ± 0.3     | 5.3 ± 0.3  | 3.0 ± 0.3  | 4.21                      | 21.40      | 5.08                     | 108.71                   | 0.60          |
| T9.52x4.75x3.18 | 9.52 ± 0.3    | 4.75 ± 0.3 | 3.18 ± 0.3 | 3.15                      | 20.70      | 6.57                     | 136.00                   | 0.80          |
| T9.53x5.59x4.90 | 9.53 ± 0.3    | 5.59 ± 0.3 | 4.90 ± 0.3 | 2.40                      | 22.60      | 9.43                     | 213.12                   | 1.12          |
| T10x5x5         | 10.0 ± 0.3    | 5.0 ± 0.3  | 5.0 ± 0.3  | 1.90                      | 21.80      | 11.50                    | 250.70                   | 1.50          |
| T10x6x4         | 10.0 ± 0.3    | 6.0 ± 0.3  | 4.0 ± 0.3  | 3.18                      | 25.44      | 8.00                     | 203.52                   | 1.00          |
| T10x6x5         | 10.0 ± 0.3    | 6.0 ± 0.3  | 5.0 ± 0.3  | 2.54                      | 25.44      | 10.00                    | 254.40                   | 1.25          |
| T12x6x4         | 12.0 ± 0.4    | 6.0 ± 0.3  | 4.0 ± 0.3  | 2.36                      | 28.27      | 12.00                    | 339.24                   | 1.65          |
| T12.7x7.14x5    | 12.7 ± 0.4    | 7.14 ± 0.3 | 5.0 ± 0.3  | 2.32                      | 29.50      | 12.70                    | 374.65                   | 2.10          |
| T12.7x7.92x6.35 | 12.7 ± 0.4    | 7.92 ± 0.3 | 6.35 ± 0.3 | 2.21                      | 32.97      | 14.90                    | 491.25                   | 2.40          |
| T13x7x5         | 13.0 ± 0.4    | 7.0 ± 0.3  | 5.0 ± 0.3  | 2.03                      | 29.50      | 14.50                    | 427.75                   | 2.30          |
| T14x8x4         | 14.0 ± 0.4    | 8.0 ± 0.3  | 4.0 ± 0.3  | 2.89                      | 32.90      | 11.40                    | 375.06                   | 2.00          |
| T14x8x7         | 14.0 ± 0.4    | 8.0 ± 0.3  | 7.0 ± 0.3  | 1.60                      | 32.80      | 20.50                    | 672.40                   | 3.60          |
| T14x9x5         | 14.0 ± 0.4    | 9.0 ± 0.3  | 5.0 ± 0.3  | 3.04                      | 35.00      | 11.50                    | 402.50                   | 2.20          |
| T16x9x5         | 16.0 ± 0.4    | 9.0 ± 0.3  | 5.0 ± 0.3  | 2.19                      | 37.20      | 17.00                    | 632.40                   | 3.40          |
| T16x10x5        | 16.0 ± 0.4    | 10.0 ± 0.3 | 5.0 ± 0.3  | 2.67                      | 39.37      | 14.72                    | 579.53                   | 2.93          |
| T16x10x7        | 16.0 ± 0.4    | 9.7 ± 0.3  | 7.0 ± 0.3  | 1.91                      | 39.37      | 20.58                    | 810.23                   | 4.10          |
| T16x12x8        | 16.0 ± 0.4    | 12.0 ± 0.3 | 8.0 ± 0.3  | 2.75                      | 43.98      | 16.00                    | 703.68                   | 3.50          |
| T16.7x9.6x5     | 16.7 ± 0.4    | 9.6 ± 0.3  | 5.0 ± 0.3  | 2.28                      | 39.45      | 17.33                    | 683.67                   | 3.50          |
| T18x10x7        | 18.0 ± 0.4    | 10.0 ± 0.4 | 7.0 ± 0.3  | 1.53                      | 41.55      | 27.21                    | 1130.58                  | 6.00          |
| T18x10x8        | 18.0 ± 0.4    | 10.0 ± 0.4 | 8.0 ± 0.3  | 1.34                      | 41.55      | 31.10                    | 1292.21                  | 6.85          |



## Ring Core-Ferrite

Ring cores manufactured from ferrite offer an efficient shape for a variety of wide band, pulse, power transformers and inductors.

Alternative coatings or un-coated cores and other sizes may be available on request

## Coating Characteristics

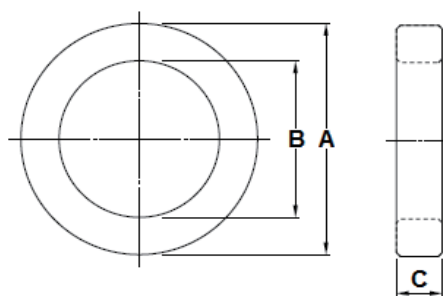
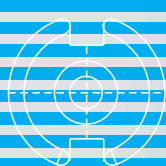
Dielectric breakdown strength and approximate thickness per surface for coated cores is as follows:

Epoxy: 1000V dc for cores up to 10mm outside diameter  
1500V dc for cores > 10mm and <= 20mm outside diameter  
2000V dc for cores > 20mm outside diameter coating thickness is 0.25mm approx per surface

Parylene: 500V ac (single layer): >0.013mm approx per surface  
1000V ac (double layer): >0.026mm approx per surface

Note: With some grades of ferrite the AL value may be up to 20% lower when coated

| Part number     | AL(nH/N <sup>2</sup> ) ± 25% |       |       | AL(nH/N <sup>2</sup> ) ± 30% |       |       |
|-----------------|------------------------------|-------|-------|------------------------------|-------|-------|
|                 | SM023                        | SM050 | SM070 | SM100                        | SM120 | SM150 |
| T4x2x1          | 307                          | 667   | 933   | 1333                         | 1600  | 2000  |
| T4x2x2          | 613                          | 1333  | 1867  | 2667                         | 3200  | 4000  |
| T5.84x3.05x3.05 | 881                          | 1914  | 2680  | 3829                         | 4595  | 5743  |
| T6x3x1.5        | 460                          | 1000  | 1400  | 2000                         | 2400  | 3000  |
| T6x3x2          | 613                          | 1333  | 1867  | 2667                         | 3200  | 4000  |
| T6x3x3          | 920                          | 2000  | 2800  | 4000                         | 4800  | 6000  |
| T8x4x2          | 640                          | 1385  | 1940  | 2770                         | 3320  | 4150  |
| T8x4x4          | 1275                         | 2770  | 3880  | 5540                         | 6650  | 8300  |
| T9x5x3          | 790                          | 1715  | 2400  | 3430                         | 4115  | 5145  |
| T9x5.3x3        | 810                          | 1590  | 2220  | 3170                         | 3808  | 4760  |
| T9.52x4.75x3.18 | 1020                         | 2210  | 3090  | 4420                         | 5300  | 6625  |
| T9.53x5.59x4.90 | 1200                         | 2610  | 3660  | 5220                         | 6270  | 7800  |
| T10x5x5         | 1590                         | 3460  | 4845  | 6900                         | 8300  | 10000 |
| T10x6x4         | 920                          | 2000  | 2800  | 4000                         | 4800  | 6000  |
| T10x6x5         | 1150                         | 2500  | 3500  | 5000                         | 6000  | 7500  |
| T12x6x4         | 1227                         | 2667  | 3733  | 5333                         | 6400  | 8000  |
| T12.7x7.14x5    | 1320                         | 2800  | 4030  | 5750                         | 6900  | 8630  |
| T12.7x7.92x6.35 | 1378                         | 2995  | 4190  | 5990                         | 7190  | 8985  |
| T13x7x5         | 1422                         | 3090  | 4330  | 6180                         | 7410  | 9270  |
| T14x8x4         | 1034                         | 2230  | 3130  | 4470                         | 5360  | 6700  |
| T14x8x7         | 1800                         | 3910  | 5480  | 7830                         | 9390  | 11700 |
| T14x9x5         | 1015                         | 2210  | 3090  | 4410                         | 5300  | 6620  |
| T16x9x5         | 1322                         | 2873  | 4023  | 5750                         | 6890  | 8620  |
| T16x10x5        | 1050                         | 2300  | 3220  | 4600                         | 5500  | 6890  |
| T16x10x7        | 1480                         | 3230  | 4520  | 6450                         | 7700  | 9650  |
| T16x12x8        | 1150                         | 2300  | 3220  | 4600                         | 5400  | 6860  |
| T16.7x9.6x5     | 1250                         | 2710  | 3780  | 5420                         | 6500  |       |
| T18x10x7        | 1840                         | 4000  | 5600  | 8000                         | 9600  | 12000 |
| T18x10x8        | 2240                         | 5200  | 7040  | 9140                         | 10970 | 13500 |



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| T18x10x10       | 18.0 ± 0.4    | 10.0 ± 0.4 | 10.0 ± 0.4 | 1.07                      | 41.55      | 38.87                    | 1615.05                  | 8.60          |
| T20x10x10       | 20.0 ± 0.4    | 10.0 ± 0.4 | 10.0 ± 0.4 | 1.08                      | 46.60      | 43.15                    | 2010.79                  | 11.50         |
| T20x12x10       | 20.0 ± 0.4    | 12.0 ± 0.4 | 10.0 ± 0.4 | 1.23                      | 48.20      | 39.10                    | 1884.62                  | 9.80          |
| T20.5x12.7x6.35 | 20.5 ± 0.4    | 12.7 ± 0.4 | 6.35 ± 0.4 | 2.07                      | 50.20      | 24.30                    | 1219.86                  | 6.20          |
| T22x14x8        | 22.0 ± 0.4    | 14.0 ± 0.4 | 8.0 ± 0.4  | 1.74                      | 54.70      | 31.40                    | 1717.58                  | 8.80          |
| T22x14x10       | 22.0 ± 0.4    | 14.0 ± 0.4 | 10.0 ± 0.4 | 2.06                      | 64.80      | 31.40                    | 2034.72                  | 10.50         |
| T22.1x13.7x6.35 | 22.1 ± 0.4    | 13.7 ± 0.4 | 6.35 ± 0.4 | 2.06                      | 54.10      | 26.20                    | 1417.42                  | 7.30          |
| T22.1x13.7x12.7 | 22.1 ± 0.4    | 13.7 ± 0.4 | 12.7 ± 0.4 | 1.03                      | 54.10      | 52.40                    | 2834.84                  | 14.40         |
| T23.1x13.7x6.9  | 23.1 ± 0.4    | 13.7 ± 0.4 | 6.9 ± 0.4  | 1.94                      | 55.20      | 28.40                    | 1567.68                  | 9.40          |
| T25x15x8        | 25.0 ± 0.4    | 15.0 ± 0.4 | 8.0 ± 0.4  | 1.64                      | 60.10      | 36.72                    | 2206.87                  | 12.00         |
| T25x15x10       | 25.0 ± 0.4    | 15.0 ± 0.4 | 10 ± 0.4   | 1.31                      | 60.10      | 45.90                    | 2758.59                  | 15.00         |
| T25x15x12       | 25.0 ± 0.4    | 15.0 ± 0.4 | 12.0 ± 0.4 | 1.02                      | 60.10      | 58.70                    | 3527.87                  | 18.50         |
| T25x15x13       | 25.0 ± 0.4    | 15.0 ± 0.4 | 13.0 ± 0.4 | 0.98                      | 60.10      | 61.40                    | 3690.14                  | 20.00         |
| T25x15x15       | 25.0 ± 0.5    | 15.0 ± 0.5 | 15.0 ± 0.7 | 0.86                      | 60.10      | 69.80                    | 4194.98                  | 22.60         |
| T26x14.5x10     | 26.0 ± 0.5    | 14.5 ± 0.4 | 10.0 ± 0.4 | 1.08                      | 60.10      | 55.90                    | 3359.59                  | 17.60         |
| T28x16x12       | 28.0 ± 0.5    | 16.0 ± 0.4 | 12.0 ± 0.4 | 1.00                      | 65.60      | 65.80                    | 4316.48                  | 25.00         |
| T28x18x13       | 28.0 ± 0.5    | 18.0 ± 0.4 | 13.0 ± 0.4 | 1.15                      | 72.40      | 63.20                    | 4575.68                  | 23.00         |
| T29x19x15       | 29.0 ± 0.5    | 19.0 ± 0.5 | 15.0 ± 0.4 | 0.99                      | 73.20      | 73.90                    | 5409.48                  | 27.20         |
| T31x19x8        | 31.0 ± 0.5    | 19.0 ± 0.5 | 8.0 ± 0.4  | 1.80                      | 75.70      | 42.00                    | 3179.40                  | 18.50         |



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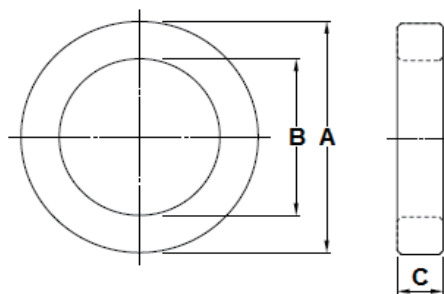
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Parylene: 500V ac(single layer): >0.013mm approx per surface  
1000V ac(double layer): >0.026mm approx per surface

Note: With some grades of ferrite the AL value may be up to 20% lower when coated

| Part number     | AL(nH/N <sup>2</sup> ) ± 25% |       |       | AL(nH/N <sup>2</sup> ) ± 30% |       |           |
|-----------------|------------------------------|-------|-------|------------------------------|-------|-----------|
|                 | SM023                        | SM050 | SM070 | SM100                        | SM120 | SM150     |
| T18x10x10       | 2800                         | 6500  | 8800  | 11800                        | 13680 | 17000     |
| T20x10x10       | 3300                         | 6930  | 9200  | 13847                        | 16000 | 20000     |
| T20x12x10       | 2300                         | 5500  | 7000  | 10000                        | 12000 | 15000     |
| T20.5x12.7x6.35 | 1400                         | 3040  | 4250  | 6070                         | 7290  | 9110      |
| T22x14x8        | 1700                         | 4000  | 5040  | 7200                         | 8640  | 10800     |
| T22x14x10       | 2100                         | 5000  | 6300  | 9000                         | 10000 | 12500     |
| T22.1x13.7x6.35 | 1500                         | 3900  | 4600  | 5750                         | 6900  | 8600      |
| T22.1x13.7x12.7 | 3000                         | 7800  | 9200  | 11500                        | 14000 | 10800 min |
| T23.1x13.7x6.9  | 1656                         | 3600  | 5040  | 7200                         | 8640  | 10800     |
| T25x15x8        | 1750                         | 3785  | 5300  | 7570                         | 9040  | 11200     |
| T25x15x10       | 2175                         | 4730  | 6620  | 9460                         | 11300 | 14000     |
| T25x15x12       | 2817                         | 6120  | 8570  | 12240                        | 14600 | 18000     |
| T25x15x13       | 3050                         | 6630  | 9290  | 13200                        | 15900 | 19000     |
| T25x15x15       | 3520                         | 7650  | 10720 | 15310                        | 18000 | 20000     |
| T26x14.5x10     | 2680                         | 5380  | 8170  | 11670                        | 14000 | 17500     |
| T28x16x12       | 3080                         | 6700  | 9390  | 13400                        | 15400 | 19000     |
| T28x18x13       | 3000                         | 5500  | 7600  | 11000                        | 13200 |           |
| T29x19x15       | 2870                         | 6800  | 8800  | 12000                        | 15000 | 18000     |
| T31x19x8        | 1737                         | 3910  | 5470  | 7820                         | 9390  | 11000     |



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| T31x19x13        | 31.0 ± 0.5    | 19.0 ± 0.5 | 13.0 ± 0.4  | 1.04                      | 75.40      | 72.70                    | 5481.58                  | 30.00         |
| T31x19x15        | 31.0 ± 0.5    | 19.0 ± 0.5 | 15.0 ± 0.4  | 0.92                      | 75.40      | 82.20                    | 6197.88                  | 34.00         |
| T32x19x13        | 32.0 ± 0.5    | 19.0 ± 0.5 | 13.0 ± 0.4  | 0.93                      | 76.60      | 82.60                    | 6327.16                  | 33.20         |
| T36x23x15        | 36.0 ± 0.8    | 23.0 ± 0.6 | 15.0 ± 0.5  | 0.99                      | 89.60      | 90.30                    | 8090.88                  | 44.30         |
| T37x22x15        | 37.0 ± 0.6    | 22.0 ± 0.5 | 15.0 ± 0.5  | 0.89                      | 88.50      | 99.10                    | 8770.35                  | 51.10         |
| T37x23x15        | 37.0 ± 0.6    | 23.0 ± 0.5 | 15.0 ± 0.5  | 0.88                      | 90.80      | 103.04                   | 9356.03                  | 48.50         |
| T38x19x13        | 38.0 ± 0.5    | 19.0 ± 0.5 | 13.0 ± 0.4  | 0.69                      | 82.70      | 119.00                   | 9841.30                  | 54.20         |
| T38x19x21        | 38.0 ± 0.5    | 19.0 ± 0.5 | 21.0 ± 0.4  | 0.43                      | 82.70      | 192.00                   | 15878.40                 | 85.00         |
| T38x22x14        | 38.0 ± 0.5    | 22.0 ± 0.5 | 14.0 ± 0.4  | 0.88                      | 89.70      | 102.00                   | 9149.40                  | 52.00         |
| T38.1x25.4x15.9  | 38.1 ± 0.5    | 25.4 ± 0.5 | 15.9 ± 0.4  | 0.97                      | 97.00      | 99.60                    | 9661.20                  | 48.30         |
| T38.1x25.4x19.05 | 38.1 ± 0.5    | 25.4 ± 0.5 | 19.05 ± 0.4 | 0.82                      | 97.00      | 119.00                   | 11543.00                 | 59.10         |
| T40x24x16        | 40.0 ± 0.6    | 24.0 ± 0.5 | 16.0 ± 0.4  | 0.82                      | 96.20      | 118.00                   | 11351.60                 | 61.80         |
| T42x26x18        | 42.0 ± 0.8    | 26.0 ± 0.6 | 18.0 ± 0.6  | 0.74                      | 106.76     | 144.00                   | 15373.44                 | 74.00         |
| T45x30x15        | 45.0 ± 0.8    | 30.0 ± 0.6 | 15.0 ± 0.5  | 1.08                      | 114.00     | 106.00                   | 12084.00                 | 64.00         |
| T47x27x15        | 47.0 ± 0.8    | 27.0 ± 0.6 | 15.0 ± 0.5  | 0.80                      | 110.00     | 137.00                   | 15070.00                 | 85.40         |
| T48x30x15        | 48.0 ± 1.0    | 30.0 ± 0.6 | 15.0 ± 0.5  | 0.89                      | 118.00     | 133.00                   | 15694.00                 | 79.00         |
| T49x31.8x19      | 49.0 ± 0.8    | 31.8 ± 0.6 | 19.0 ± 0.5  | 0.76                      | 123.10     | 161.70                   | 19905.27                 | 96.00         |
| T49x33.8x19      | 49.0 ± 0.8    | 33.8 ± 0.6 | 19.0 ± 0.5  | 0.88                      | 114.40     | 129.90                   | 14860.56                 | 93.00         |
| T50x25x20        | 50.0 ± 1.0    | 25.0 ± 0.6 | 20.0 ± 0.6  | 0.47                      | 117.75     | 250.00                   | 29437.50                 | 141.30        |
| T51x31x13        | 51.0 ± 1.0    | 31.0 ± 0.8 | 13.0 ± 0.5  | 0.95                      | 125.30     | 132.10                   | 16552.13                 | 83.00         |
| T56x32x18        | 56.0 ± 1.0    | 36.0 ± 1.0 | 18.0 ± 0.6  | 0.62                      | 131.40     | 211.00                   | 27725.40                 | 143.00        |



# Sailcrest Magnetics Material Group.

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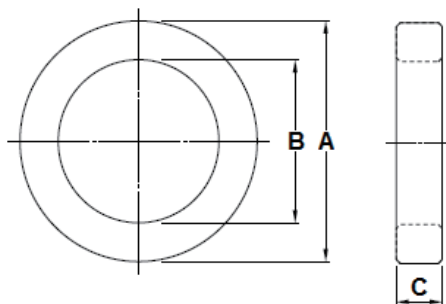
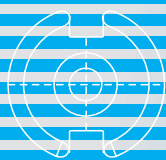
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|------------------|------------------------------|-------|-------|------------------------------|-------|-------|
|                  | SM023                        | SM050 | SM070 | SM100                        | SM120 | SM150 |
| T31x19x13        | 2924                         | 6350  | 8900  | 12700                        | 15000 | 19000 |
| T31x19x15        | 3700                         | 7800  | 11200 | 13600                        | 16300 |       |
| T32x19x13        | 3114                         | 6770  | 9480  | 13500                        | 16200 |       |
| T36x23x15        | 3088                         | 6710  | 9400  | 13400                        | 16000 | 20000 |
| T37x22x15        | 3564                         | 7790  | 10000 | 15000                        | 18000 |       |
| T37x23x15        | 3220                         | 7700  | 9800  | 14000                        |       |       |
| T38x19x13        | 4156                         | 9000  | 12600 | 18000                        | 20000 |       |
| T38x19x21        | 6440                         | 15400 | 19600 | 28000                        | 33000 |       |
| T38x22x14        | 3516                         | 7640  | 10700 | 14000                        | 17000 |       |
| T38.1x25.4x15.9  | 2960                         | 6440  | 9020  | 12000                        | 14000 |       |
| T38.1x25.4x19.05 | 3549                         | 7720  | 10000 | 14000                        | 17000 |       |
| T40x24x16        | 3760                         | 8160  | 11430 | 16330                        | 18000 |       |
| 42x26x18         | 3890                         | 9310  | 11850 | 16000                        | 18000 |       |
| T45x30x15        | 2760                         | 6600  | 8400  | 12000                        | 14400 |       |
| T47x27x15        | 3820                         | 8300  | 11600 | 16000                        | 18000 |       |
| T48x30x15        | 3400                         | 7800  | 10600 | 14000                        | 16000 |       |
| T49x31.8x19      | 3950                         | 7800  | 11900 | 17100                        | 18000 |       |
| T49x33.8x19      | 3050                         | 6650  | 9300  | 13300                        | 15900 |       |
| T50x25x20        | 6130                         | 14650 | 18600 | 25000                        |       |       |
| T51x31x13        | 2900                         | 6900  | 9000  | 12600                        |       |       |
| T56x32x18        | 4500                         | 10800 | 13500 | 19600                        |       |       |



| Part number     | Dimension(mm) |            |            | Cores Constants           |            |                          |                          |               |
|-----------------|---------------|------------|------------|---------------------------|------------|--------------------------|--------------------------|---------------|
|                 | A             | B          | C          | C1<br>(mm <sup>-1</sup> ) | Le<br>(mm) | Ae<br>(mm <sup>2</sup> ) | Ve<br>(mm <sup>3</sup> ) | Weight<br>(g) |
| T60x40x20       | 60.0 ± 1.5    | 40.0 ± 1.0 | 20.0 ± 0.6 | 0.59                      | 141.00     | 240.30                   | 33882.30                 | 150.00        |
| T63x38x15       | 63.0 ± 2.0    | 38.0 ± 1.5 | 15.0 ± 0.7 | 0.83                      | 152.00     | 183.00                   | 27816.00                 | 146.00        |
| T63x38x25       | 63.0 ± 2.0    | 38.0 ± 1.5 | 25.0 ± 1.0 | 0.50                      | 152.00     | 306.00                   | 46512.00                 | 243.00        |
| T68x44x15       | 68.0 ± 2.0    | 44.0 ± 1.5 | 15.0 ± 0.7 | 0.98                      | 170.30     | 174.10                   | 29649.23                 | 165.00        |
| T80x50x20       | 80.0 ± 2.0    | 50.0 ± 1.5 | 20.0 ± 1.0 | 0.45                      | 174.00     | 384.00                   | 66816.00                 | 300.00        |
| T85.7x55.5x12.7 | 85.7 ± 2.0    | 55.5 ± 1.5 | 12.7 ± 1.0 | 1.12                      | 215.00     | 192.00                   | 41280.00                 | 209.00        |
| T87x54x30       | 87.0 ± 2.5    | 54.0 ± 2.0 | 30.0 ± 1.0 | 0.44                      | 213.00     | 485.00                   | 103305.0                 | 513.00        |
| T100x50x20      | 100.0 ± 2.5   | 50.0 ± 2.0 | 20.0 ± 1.0 | 0.45                      | 218.50     | 482.00                   | 105317.0                 | 560.00        |
| T160x90x20      | 160.0 ± 3.0   | 90.0 ± 2.5 | 20.0 ± 1.5 | 0.55                      | 372.00     | 681.00                   | 253332.0                 | 1347.00       |





## Ring Core-Ferrite

Ring cores manufactured from ferrite offer an efficient shape for a variety of wide band, pulse, power transformers and inductors.

Alternative coatings or un-coated cores and other sizes may be available on request

## Coating Characteristics

Dielectric breakdown strength and approximate thickness per surface for coated cores is as follows:

Epoxy: 1000V dc for cores up to 10mm outside diameter  
1500V dc for cores > 10mm and <= 20mm outside diameter  
2000V dc for cores > 20mm outside diameter coating thickness is 0.25mm approx per surface

Parylene: 500V ac(single layer): > 0.013mm approx per surface  
1000V ac(double layer): > 0.026mm approx per surface

Note: With some grades of ferrite the AL value may be up to 20% lower when coated

| Part number     | AL(nH/N <sup>2</sup> ) ± 25% |       |       | AL(nH/N <sup>2</sup> ) ± 30% |       |       |
|-----------------|------------------------------|-------|-------|------------------------------|-------|-------|
|                 | SM023                        | SM050 | SM070 | SM100                        | SM120 | SM150 |
| T60x40x20       | 3680                         | 8800  | 11200 | 16000                        |       |       |
| T63x38x15       | 3480                         | 7560  | 10200 | 14400                        |       |       |
| T63x38x25       | 5800                         | 12600 | 17000 | 24000                        |       |       |
| T68x44x15       | 2950                         | 7000  | 9000  | 12800                        |       |       |
| T80x50x20       | 4250                         | 10100 | 12900 | 18000                        |       |       |
| T85.7x55.5x12.7 | 2535                         | 5511  | 7716  |                              |       |       |
| T87x54x30       | 6450                         | 15000 | 19500 | 28000                        |       |       |
| T100x50x20      | 6100                         | 14600 | 18600 | 26600                        |       |       |
| T160x90x20      | 5280                         | 11400 | 16000 |                              |       |       |

\*All specification are subject to change without notice.