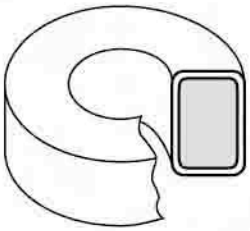

CORNERS:
*0.094 Approx. Radius (Typical)*

## Dimensions

| | Outside Diameter | Inside Diameter | Height |
|---|---|---|---|
| Before Coating Nominal | 1.570 in<br>39.88 mm | 0.950 in<br>24.13 mm | 0.570 in<br>14.48 mm |
| After Coating (Blue Epoxy) | 1.602 in Max.<br>40.69 mm Max. | 0.918 in Min.<br>23.32 mm Min. | 0.605 in Max.<br>15.37 mm Max. |

## Physical Specifications

| Effective Cross Sectional Area of Magnetic Path, $A_e$ (Reference) | Effective Magnetic Path Length, $l_e$ (Reference) | Effective Core Volume, $V_e$ (Reference) | Minimum Window Area (Reference) | Approximate Weight of Finished 125µ Core | | Approximate Mean Length of Turn for Full Winding (Half of I.D. Remaining) |
|---|---|---|---|---|---|---|
| 0.1662 in²<br>1.072 cm² | 3.877 in<br>9.848 cm | 0.6449 in³<br>10.5485 cm³ | 0.6619 in²<br>4.2702 cm²<br>842,724 cmil | MPP<br>HF<br>SMSS | 87.000g<br>87.000g<br>65.000g | 1.87 in<br>4.76 cm |

## Electrical Specifications

| Nominal Permeability | Inductance Factor, mH +/- 8% for 1000 turns | Approximate Ratio of DC Resistance to Inductance for Full Winding (Half of I.D. Remaining), Ω/mH | Part Numbers | | | |
|---|---|---|---|---|---|---|
| | | | Molypermalloy | | HI-FLUX | SUPER-MSS |
| | | | NEW | OLD | | |
| 14µ | 19 | 0.24 | MP-157014-2 | A-086019-2 | HF-157014-2 | MS-157014-2 |
| 26µ | 35 | 0.13 | MP-157026-2 | A-085035-2 | HF-157026-2 | MS-157026-2 |
| 60µ | 81 | 0.060 | MP-157060-2 | A-083081-2 | HF-157060-2 | MS-157060-2 |
| 75µ | 101 | 0.045 | — | — | — | MS-157075-2 |
| 90µ | 121 | 0.038 | — | — | — | MS-157090-2 |
| 125µ | 168 | 0.027 | MP-157125-2 | A-254168-2 | HF-157125-2 | MS-157125-2 |
| 147µ | 198 | 0.023 | MP-157147-2 | A-151198-2 | HF-157147-2 | MS-157147-2 |
| 160µ | 215 | 0.021 | MP-157160-2 | A-306215-2 | HF-157160-2 | — |
| 173µ | 233 | 0.019 | MP-157173-2 | A-179233-2 | — | — |
| 205µ | 276 | 0.016 | MP-157205-2 | A-214276-2 | — | — |

## Heavy Film Magnet Wire Winding Data (Approximate)

| AWG | mm | Full Winding (Half of I.D. Remaining) | | Single Layer Winding | | |
|---|---|---|---|---|---|---|
| | | Turns | $R_{dc}$, Ω | Turns | $R_{dc}$, Ω | $l_w$, ft. |
| 10 | 2.500 | — | — | 22 | 0.00389 | 3.89 |
| 11 | 2.240 | — | — | 25 | 0.00545 | 4.32 |
| 12 | 2.000 | 65 | 0.01803 | 28 | 0.00762 | 4.80 |
| 13 | 1.800 | 81 | 0.0281 | 31 | 0.0107 | 5.33 |
| 14 | 1.600 | 101 | 0.0438 | 35 | 0.0148 | 5.88 |
| 15 | 1.400 | 126 | 0.0683 | 40 | 0.0208 | 6.55 |
| 16 | 1.250 | 158 | 0.1071 | 45 | 0.0292 | 7.27 |
| 17 | 1.120 | 197 | 0.1662 | 50 | 0.0408 | 8.08 |
| 18 | 1.000 | 247 | 0.260 | 57 | 0.0574 | 8.98 |
| 19 | 0.900 | 307 | 0.406 | 64 | 0.0804 | 9.99 |
| 20 | 0.800 | 383 | 0.632 | 71 | 0.112 | 11.1 |
| 21 | 0.710 | 477 | 0.986 | 80 | 0.158 | 12.4 |
| 22 | 0.630 | 597 | 1.557 | 90 | 0.223 | 13.8 |
| 23 | 0.560 | 739 | 2.40 | 100 | 0.309 | 15.2 |
| 24 | 0.500 | 921 | 3.77 | 112 | 0.435 | 16.9 |
| 25 | 0.450 | 1145 | 5.88 | 125 | 0.611 | 18.9 |
| 26 | 0.400 | 1429 | 9.26 | 140 | 0.862 | 21.0 |
| 27 | 0.355 | 1767 | 14.31 | 155 | 1.20 | 23.3 |

| AWG | mm | Full Winding (Half of I.D. Remaining) | | Single Layer Winding | | |
|---|---|---|---|---|---|---|
| | | Turns | $R_{dc}$, Ω | Turns | $R_{dc}$, Ω | $l_w$, ft. |
| 28 | 0.315 | 2209 | 22.6 | 174 | 1.69 | 25.9 |
| 29 | 0.280 | 2710 | 34.4 | 192 | 2.32 | 28.6 |
| 30 | 0.250 | 3404 | 55.1 | 215 | 3.31 | 31.9 |
| 31 | 0.224 | 4234 | 86.3 | 238 | 4.60 | 35.1 |
| 32 | 0.200 | 5183 | 130.4 | 262 | 6.26 | 38.7 |
| 33 | 0.180 | 6491 | 207.0 | 292 | 8.85 | 43.0 |
| 34 | 0.160 | 8142 | 329.0 | 330 | 12.7 | 48.5 |
| 35 | 0.140 | 10202 | 521.0 | 368 | 17.8 | 54.0 |

Remarks: *= New part no.