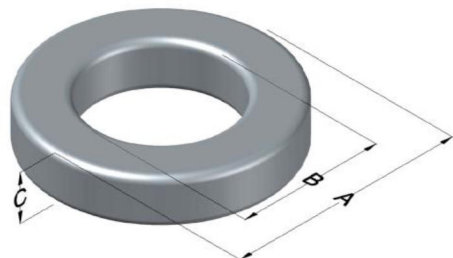




**0077150A7**

110 Delta Drive  
Pittsburgh, PA 15238  
NAFTA Sales: (1)800-245-3984  
HK Sales : (852)3102-9337  
magnetics@spang.com  
www.mag-inc.com



| Kool Mμ<br>Permeability<br>(μ) | A <sub>L</sub><br>(nH/T <sup>2</sup> ) | Core Marking  |                |                     | Coating<br>Color |
|--------------------------------|----------------------------------------|---------------|----------------|---------------------|------------------|
|                                |                                        | Lot<br>Number | Part<br>Number | Inductance<br>Grade |                  |
| 125                            | 35 ± 15%                               | N/A           | N/A            | N/A                 | Black            |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Bulk Pack<br>10 vials/box<br>Box Qty= 7500 pcs |
|------------|----------|-------|---------------|-------|-----|-----------------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                                 |
| OD (A)     | 3.94     | 0.155 | 4.57          | 0.180 | max |                                                                 |
| ID (B)     | 2.24     | 0.088 | 1.73          | 0.068 | min |                                                                 |
| HT (C)     | 2.54     | 0.100 | 3.18          | 0.125 | max |                                                                 |

| Electrical Characteristics                   |                           |      | Physical Characteristics                                       |                               |                                        |                                          |                                       |                                |               |
|----------------------------------------------|---------------------------|------|----------------------------------------------------------------|-------------------------------|----------------------------------------|------------------------------------------|---------------------------------------|--------------------------------|---------------|
| Watt Loss<br>@ 100 kHz, 100mT<br>max(mW/cm³) | DC Bias<br>min (oersteds) |      | Voltage<br>Breakdown<br>wire to wire<br>min (V <sub>AC</sub> ) | Break<br>Strength<br>min (kg) | Window<br>Area<br>W <sub>A</sub> (mm²) | Cross<br>Section<br>A <sub>e</sub> (mm²) | Path<br>Length<br>L <sub>e</sub> (mm) | Volume<br>V <sub>e</sub> (mm³) | Weight<br>(g) |
| 750                                          | 80%                       | 50%  | *-                                                             | 2.7                           | 2.32                                   | 2.11                                     | 9.42                                  | 19.9                           | 0.1200        |
|                                              | 14.0                      | 35.0 |                                                                |                               |                                        |                                          |                                       |                                |               |

| Winding Information     |      |                |      |                            |        | Temperature Rating |                                                           |
|-------------------------|------|----------------|------|----------------------------|--------|--------------------|-----------------------------------------------------------|
| Winding Length Per Turn |      |                |      | Wound Coil Dimensions (mm) |        |                    | Curie Temp: 500°C                                         |
| Winding Factor          | (mm) | Winding Factor | (mm) | 40% Winding Factor         | OD     | 4.85               | Coating Temp (Continuous up to):<br>200°C                 |
|                         |      |                |      |                            | HT     | 3.73               |                                                           |
|                         |      |                |      | Completely Full Window     | Max OD | 5.77               | Notes:                                                    |
|                         |      |                |      |                            | Max HT | 4.75               |                                                           |
| 0%                      | 9.20 | 40%            | 10.1 | Surface Area (mm²)         |        |                    | *No voltage breakdown min for A2 or<br>A7 with OD ≤4.65mm |
| 20%                     | 9.64 | 45%            | 10.2 |                            |        |                    |                                                           |
| 25%                     | 9.76 | 50%            | 10.3 |                            |        |                    |                                                           |
| 30%                     | 9.84 | 60%            | 10.6 | Unwound Core               |        | 90                 |                                                           |
| 35%                     | 9.98 | 70%            | 10.9 | 40% Winding Factor         |        | 110                |                                                           |
|                         |      |                |      |                            |        |                    |                                                           |

## Typical DC Bias Performance

