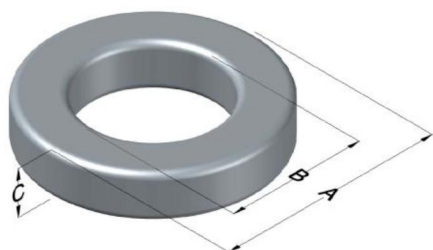




**0077740A7**

110 Delta Drive  
Pittsburgh, PA 15238  
NAFTA Sales: (1)800-245-3984  
HK Sales : (852)3102-9337  
magnetics@spang.com  
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| 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                            | 425 ± 8%                               | XXXXXX        | 77740A7        | N/A                 | Black            |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 24 pcs |
|------------|----------|-------|---------------|-------|-----|--------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                        |
| OD (A)     | 74.09    | 2.917 | 75.21         | 2.961 | max |                                                        |
| ID (B)     | 45.29    | 1.783 | 44.40         | 1.748 | min |                                                        |
| HT (C)     | 35.00    | 1.378 | 35.92         | 1.414 | max |                                                        |

| Electrical Characteristics                                 |                           |     | Physical Characteristics                                       |                               |                                                     |                                                       |                                       |                                             |               |
|------------------------------------------------------------|---------------------------|-----|----------------------------------------------------------------|-------------------------------|-----------------------------------------------------|-------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------|
| Watt Loss<br>@ 100 kHz, 100mT<br>max (mW/cm <sup>3</sup> ) | 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> (mm <sup>2</sup> ) | Cross<br>Section<br>A <sub>e</sub> (mm <sup>2</sup> ) | Path<br>Length<br>L <sub>e</sub> (mm) | Volume<br>V <sub>e</sub> (mm <sup>3</sup> ) | Weight<br>(g) |
| 1000                                                       | 80%                       | 50% | 3000                                                           | 227.0                         | 1,550                                               | 497                                                   | 184                                   | 91,400                                      | 580.7         |
|                                                            | 14                        | 35  |                                                                |                               |                                                     |                                                       |                                       |                                             |               |

| 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                 | 91.0               | Coating Temp (Continuous up to): 200°C |  |
|                         |                        |                |      |                            | HT                 | 55.2               |                                        |  |
|                         | Completely Full Window | Max OD         | 102  | Notes:                     |                    |                    |                                        |  |
|                         |                        | Max HT         | 65.7 |                            |                    |                    |                                        |  |
| 0%                      | 102                    | 40%            | 125  |                            | Surface Area (mm²) |                    |                                        |  |
| 20%                     | 114                    | 45%            | 129  |                            |                    |                    |                                        |  |
| 25%                     | 117                    | 50%            | 132  |                            |                    |                    |                                        |  |
| 30%                     | 119                    | 60%            | 139  | Unwound Core               |                    | 19,000             |                                        |  |
| 35%                     | 122                    | 70%            | 147  | 40% Winding Factor         |                    | 33,000             |                                        |  |

## Typical DC Bias Performance

