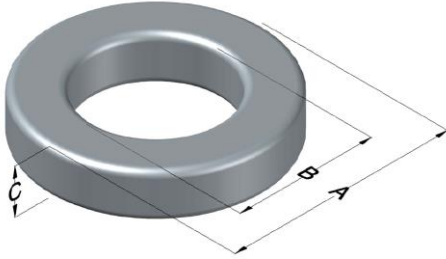




**0059350A2**

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



| Edge Permeability ( $\mu$ ) | $A_L$ (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|-----------------------------|----------------------------|--------------|-------------|------------------|---------------|
|                             |                            | Lot Number   | Part Number | Inductance Grade |               |
| 125                         | 105 $\pm$ 8%               | XXXXXX       | 59350A2     | X                | Green         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                              |
|------------|----------|-------|---------------|-------|-----|--|
|            | (mm)     | (in)  | (mm)          | (in)  |     |  |
| OD (A)     | 23.6     | 0.928 | 24.4          | 0.958 | max | Cardboard cut-outs<br>Box Qty= 480 pcs |
| ID (B)     | 14.4     | 0.567 | 13.7          | 0.542 | min |  |
| HT (C)     | 8.89     | 0.350 | 9.66          | 0.380 | max |  |

| Electrical Characteristics                           |                        |     | Physical Characteristics                              |                         |   |   |                                 |  |            |
|--|------------------------|-----|---|-------------------------|---|---|---------------------------------|--|------------|
| Watt Loss @ 100 kHz, 100mT max (mW/cm <sup>3</sup> ) | DC Bias min (oersteds) |     | Voltage Breakdown wire to wire min (V <sub>AC</sub> ) | Break Strength min (kg) | Window Area W <sub>A</sub> (mm <sup>2</sup> ) | Cross Section A <sub>e</sub> (mm <sup>2</sup> ) | Path Length L <sub>e</sub> (mm) | Volume V <sub>e</sub> (mm <sup>3</sup> ) | Weight (g) |
|  | 80%                    | 50% |   |                         |   |   |                                 |  |            |
| 700  | 55                     | 90  | 1000  | 47.0                    | 149   | 38.8  | 58.8                            | 2,280                                    | 19         |

| 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              |                    | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      | OD                              | 26.7               | Notes:                                 |
| 0%                      | 29.8 | 40%            | 36.9 | HT                              | 14.2               |  |
|                         |      |                |      | Max OD                          | 33.5               |  |
| 20%                     | 33.4 | 45%            | 38.0 | Max HT                          | 21.4               |  |
| 25%                     | 34.2 | 50%            | 38.9 | Surface Area (mm <sup>2</sup> ) |                    |  |
| 30%                     | 35.0 | 60%            | 41.1 | Unwound Core                    | 1,800              |  |
| 35%                     | 36.1 | 70%            | 43.6 | 40% Winding Factor              | 2,700              |  |

**Typical DC Bias Performance**

