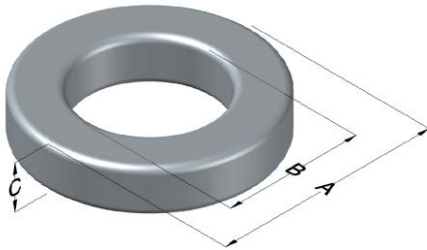




**0075936A7**

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



| 75 Material Permeability ( $\mu$ ) | $A_L$ (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|------------------------------------|----------------------------|--------------|-------------|------------------|---------------|
|                                    |                            | Lot Number   | Part Number | Inductance Grade |               |
| 40                                 | 50 $\pm$ 8%                | XXXXXX       | 75936A7     | N/A              | Black         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 400 pcs |
|------------|----------|-------|---------------|-------|-----|---------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                         |
| OD (A)     | 26.92    | 1.060 | 27.69         | 1.090 | max |                                                         |
| ID (B)     | 14.73    | 0.580 | 14.10         | 0.555 | min |                                                         |
| HT (C)     | 11.18    | 0.440 | 11.94         | 0.470 | max |                                                         |

| Electrical Characteristics                          |                        |     | Physical Characteristics                              |                         |                                               |                                                 |                                 |                                          |            |
|-----------------------------------------------------|------------------------|-----|-------------------------------------------------------|-------------------------|-----------------------------------------------|-------------------------------------------------|---------------------------------|------------------------------------------|------------|
| Watt Loss @ 50 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) |
| 850                                                 | 80%                    | 50% | 3000                                                  | 77.0                    | 156                                           | 65.4                                            | 63.5                            | 4,150                                    | 27         |
|                                                     | 85.0                   | 180 |                                                       |                         |                                               |                                                 |                                 |                                          |            |

| 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     | 30.0               | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      |                            | HT     | 16.5               |                                        |
|                         |      |                |      | Completely Full Window     | Max OD | 37.3               | Notes:                                 |
|                         |      |                |      |                            | Max HT | 24.0               |                                        |
| 0%                      | 37.5 | 40%            | 44.6 | Surface Area (mm²)         |        |                    |                                        |
| 20%                     | 41.1 | 45%            | 45.7 |                            |        |                    |                                        |
| 25%                     | 41.9 | 50%            | 46.6 |                            |        |                    |                                        |
| 30%                     | 42.8 | 60%            | 48.8 | Unwound Core               |        | 2,400              |                                        |
| 35%                     | 43.8 | 70%            | 51.3 | 40% Winding Factor         |        | 3,500              |                                        |

## Typical DC Bias Performance

