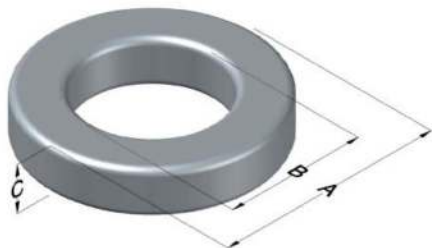




**0078912A7**

110 Delta Drive  
Pittsburgh, PA 15238  
NAFTA Sales: (1)800-245-3984  
HK Sales : (852)3102-9337  
magnetics@spang.com  
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| XFlux Permeability ( $\mu$ ) | $A_L$ (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|------------------------------|----------------------------|--------------|-------------|------------------|---------------|
|                              |                            | Lot Number   | Part Number | Inductance Grade |               |
| 40                           | 57 $\pm$ 8%                | XXXXXX       | 78912A7     | N/A              | Brown         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 40 pcs |
|------------|----------|-------|---------------|-------|-----|--------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                        |
| OD (A)     | 77.80    | 3.063 | 78.94         | 3.108 | max |                                                        |
| ID (B)     | 49.23    | 1.938 | 48.21         | 1.898 | min |                                                        |
| HT (C)     | 15.88    | 0.625 | 17.02         | 0.670 | max |                                                        |

| Electrical Characteristics                   |                               |     | Physical Characteristics                                       |                               |                                        |                                          |                                       |                                |               |
|----------------------------------------------|-------------------------------|-----|----------------------------------------------------------------|-------------------------------|----------------------------------------|------------------------------------------|---------------------------------------|--------------------------------|---------------|
| Watt Loss<br>@ 50 kHz, 100mT<br>Max (mW/cm³) | DC Bias<br>Typical (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) |
| 850                                          | 80%                           | 50% | 3000                                                           | 141.0                         | 1,820                                  | 221                                      | 196                                   | 43,400                         | 330           |
|                                              | 120                           | 230 |                                                                |                               |                                        |                                          |                                       |                                |               |

| Winding Information     |      |                |      |                            |        | Temperature Rating |                                        |
|-------------------------|------|----------------|------|----------------------------|--------|--------------------|----------------------------------------|
| Winding Length Per Turn |      |                |      | Wound Coil Dimensions (mm) |        |                    | Curie Temp: 700°C                      |
| Winding Factor          | (mm) | Winding Factor | (mm) | 40% Winding Factor         | OD     | 86.6               | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      |                            | HT     | 32.3               |                                        |
|                         |      |                |      | Completely Full Window     | Max OD | 112                | Notes:                                 |
|                         |      |                |      |                            | Max HT | 57.7               |                                        |
| 0%                      | 64.8 | 40%            | 89.2 | Surface Area (mm²)         |        |                    |                                        |
| 20%                     | 77.3 | 45%            | 93.2 |                            |        |                    |                                        |
| 25%                     | 80.1 | 50%            | 97.0 |                            |        |                    |                                        |
| 30%                     | 83.1 | 60%            | 104  | Unwound Core               |        | 13,000             |                                        |
| 35%                     | 86.5 | 70%            | 113  | 40% Winding Factor         |        | 24,000             |                                        |

## Typical DC Bias Performance

