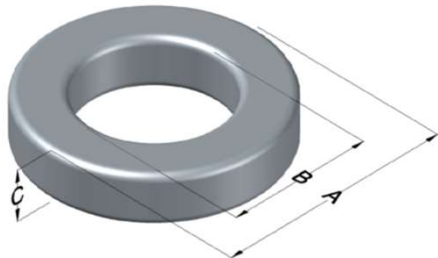




**0078102A7S01**

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| Xflux Si<br>Permeability<br>( $\mu$ ) | $A_L$<br>(nH/T <sup>2</sup> ) | Core Marking  |                |                     | Coating<br>Color |
|---------------------------------------|-------------------------------|---------------|----------------|---------------------|------------------|
|                                       |                               | Lot<br>Number | Part<br>Number | Inductance<br>Grade |                  |
| 26                                    | 48 $\pm$ 8%                   | XXXXXX        | 78102A7        | N/A                 | Brown            |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 25 pcs |
|------------|----------|-------|---------------|-------|-----|--------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                        |
| OD (A)     | 101.60   | 4.000 | 103.00        | 4.055 | max |                                                        |
| ID (B)     | 57.15    | 2.250 | 55.75         | 2.195 | min |                                                        |
| HT (C)     | 16.51    | 0.650 | 17.91         | 0.705 | max |                                                        |

| Electrical Characteristics                               |                           |     | Physical Characteristics                                       |                               |                                                     |                                                       |                                       |                                             |               |
|----------------------------------------------------------|---------------------------|-----|----------------------------------------------------------------|-------------------------------|-----------------------------------------------------|-------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------|
| Watt Loss<br>@ 50kHz, 100mT<br>max (mW/cm <sup>3</sup> ) | DC Bias min<br>(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 V <sub>e</sub><br>(mm <sup>3</sup> ) | Weight<br>(g) |
|                                                          | 80%                       | 50% |                                                                |                               |                                                     |                                                       |                                       |                                             |               |
| 1000                                                     | 230                       | 420 | 3000                                                           | 181.0                         | 2,440                                               | 358                                                   | 242.7                                 | 87,000                                      | 619           |

| 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     | 114                | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      |                            | HT     | 34.7               |                                        |
|                         |      |                |      | Completely Full Window     | Max OD | 120                | Notes:                                 |
|                         |      |                |      |                            | Max HT | 57.1               |                                        |
|                         |      |                |      | 0%                         | 83.1   | 40%                |                                        |
| 20%                     | 97.6 | 45%            | 116  |                            |        |                    |                                        |
| 25%                     | 101  | 50%            | 120  |                            |        |                    |                                        |
| 30%                     | 104  | 60%            | 128  |                            |        |                    |                                        |
| 35%                     | 108  | 70%            | 138  | Unwound Core               | 21,000 |                    |                                        |
|                         |      |                |      | 40% Winding Factor         | 35,000 |                    |                                        |

**Typical DC Bias Performance**

