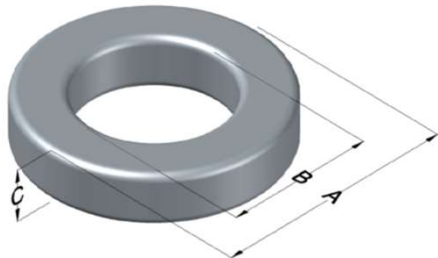




**0078338A7S01**

110 Delta Drive  
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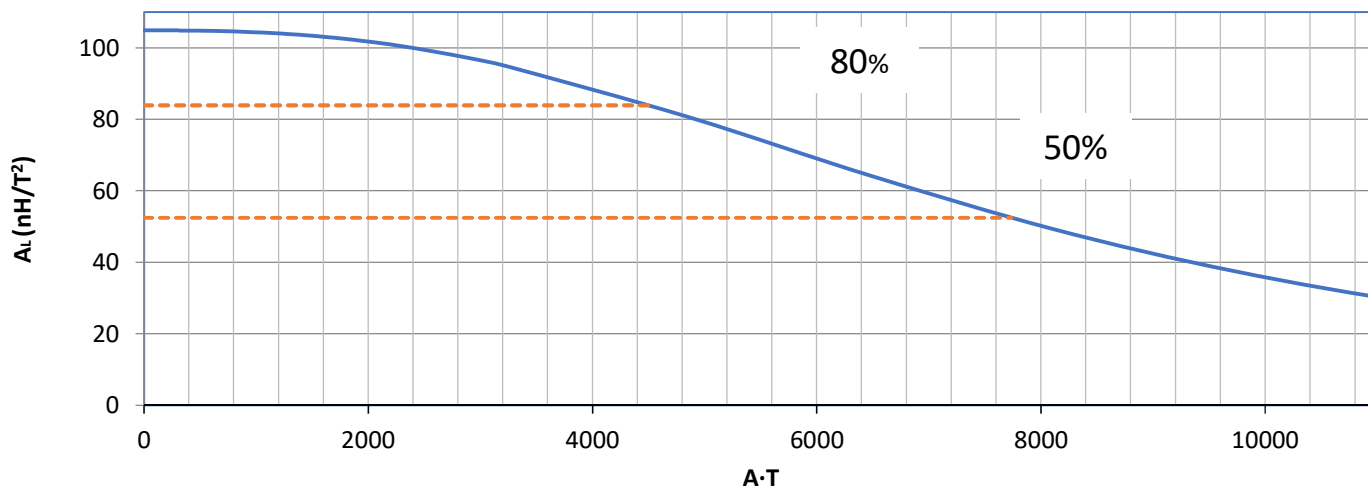
| Xflux Si<br>Permeability<br>( $\mu$ ) | $A_L$<br>(nH/T <sup>2</sup> ) | Core Marking  |                |                     | Coating<br>Color |
|---------------------------------------|-------------------------------|---------------|----------------|---------------------|------------------|
|                                       |                               | Lot<br>Number | Part<br>Number | Inductance<br>Grade |                  |
| 40                                    | 105 $\pm$ 8%                  | XXXXXX        | 78338A7        | N/A                 | Brown            |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                             |
|------------|----------|-------|---------------|-------|-----|---------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                       |
| OD (A)     | 132.56   | 5.219 | 133.96        | 5.274 | max | Cardboard cut-outs<br>Box Qty= 16 pcs |
| ID (B)     | 78.59    | 3.094 | 77.19         | 3.039 | min |                                       |
| HT (C)     | 25.40    | 1.000 | 26.80         | 1.055 | 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% |                                                                |                               |                                                     |                                                       |                                       |                                             |               |
| 925                                                      | 140                       | 250 | 3000                                                           | 227.0                         | 4,680                                               | 677                                                   | 324.3                                 | 219,000                                     | 1,550         |

| 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     | 141                | Coating Temp (Continuous up to): 200°C |
|                         |      |                |       |                            | HT     | 50.8               |                                        |
|                         |      |                |       | Completely Full Window     | Max OD | 153                | Notes:                                 |
|                         |      |                |       |                            | Max HT | 50.8               |                                        |
|                         |      |                |       | 0%                         | 110    | 40%                |                                        |
| 20%                     | 129  | 45%            | ERROR |                            |        |                    |                                        |
| 25%                     | 134  | 50%            | ERROR |                            |        |                    |                                        |
| 30%                     | 138  | 60%            | ERROR | Unwound Core               | 37,000 |                    |                                        |
| 35%                     | 144  | 70%            | ERROR | 40% Winding Factor         | 58,000 |                    |                                        |

### Typical DC Bias Performance



Revision 10/6/2021