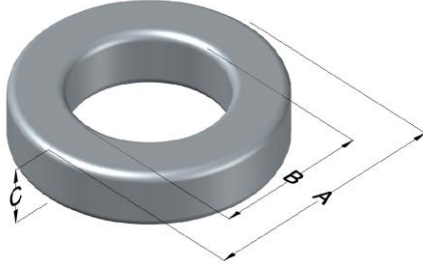




**0078391A7**

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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                           | 81 ± 8%                    | XXXXXX       | 78391A7     | N/A              | Brown         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                              |
|------------|----------|-------|---------------|-------|-----|--|
|            | (mm)     | (in)  | (mm)          | (in)  |     |  |
| OD (A)     | 40.13    | 1.580 | 40.94         | 1.612 | max | Cardboard cut-outs<br>Box Qty= 160 pcs |
| ID (B)     | 22.08    | 0.869 | 21.27         | 0.837 | min |  |
| HT (C)     | 17.00    | 0.669 | 17.89         | 0.704 | max |  |

| Electrical Characteristics                           |                        |     | Physical Characteristics                              |                         |   |   |                                 |  |                 |
|--|------------------------|-----|---|-------------------------|---|---|---------------------------------|--|-----------------|
| Watt Loss @ 50 kHz, 100 mT 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> ) | Est. Weight (g) |
|  | 850                    | 80% |   |                         |   |   |                                 |  |                 |
|  | 120                    | 230 | 3000  | 450.0                   | 355   | 153   | 94.9                            | 14,600                                   | 103             |

| 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              |                    | Notes:            |
|                         |      |                |      | OD                              | 45.4               |                   |
| 0%                      | 55.5 | 40%            | 67.6 | HT                              | 26.8               |                   |
|                         |      |                |      | Max OD                          | 49.8               |                   |
| 20%                     | 62.4 | 45%            | 69.1 | Max HT                          | 35.7               |                   |
|                         |      |                |      | Completely Full Window          |                    |                   |
| 25%                     | 62.4 | 50%            | 70.0 | Surface Area (mm <sup>2</sup> ) |                    |                   |
| 30%                     | 63.7 | 60%            | 74.1 | Unwound Core                    | 5,400              |                   |
| 35%                     | 65.7 | 70%            | 78.0 | 40% Winding Factor              | 7,900              |                   |

