



**0079872A7**

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| Kool M $\mu$ MAX Permeability ( $\mu$ ) | A <sub>L</sub> (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|---|-------------------------------------|--------------|-------------|------------------|---------------|
|   |                                     | Lot Number   | Part Number | Inductance Grade |               |
| 40                                      | 45 ± 8%                             | XXXXXX       | 79872A7     | N/A              | Black         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                             |
|------------|----------|-------|---------------|-------|-----|---------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                       |
| OD (A)     | 77.80    | 3.063 | 78.95         | 3.108 | max | Cardboard cut-outs<br>Box Qty= 45 pcs |
| ID (B)     | 49.20    | 1.938 | 48.20         | 1.898 | min |                                       |
| HT (C)     | 12.7     | 0.500 | 13.9          | 0.545 | max |                                       |

| Electrical Characteristics                           |                      |     | Physical Characteristics                              |                         |   |   |                                 |  |            |
|--|----------------------|-----|---|-------------------------|---|---|---------------------------------|--|------------|
| Watt Loss @ 100 kHz, 100mT max (mW/cm <sup>3</sup> ) | DC Bias min (A-T/cm) |     | 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) |
|  | 80%                  | 50% |   |                         |   |   |                                 |  |            |
| 700  | 65.9                 | 143 | 2000  | 140                     | 1,820   | 176   | 196                             | 34,500                                   | 200        |

| 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              |                    | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      | OD                              | 86.6               | Notes:                                 |
| 0%                      | 58.4 | 40%            | 83.5 | HT                              | 29.1               |  |
|                         |      |                |      | Max OD                          | 112                |  |
| 20%                     | 70.9 | 45%            | 86.7 | Max HT                          | 54.3               |  |
| 25%                     | 74.1 | 50%            | 90.4 | Surface Area (mm <sup>2</sup> ) |                    |  |
| 30%                     | 76.3 | 60%            | 98.1 | Unwound Core                    | 11,000             |  |
| 35%                     | 80.4 | 70%            | 107  | 40% Winding Factor              | 23,000             |  |

