



**0079056A7**

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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                                      | 18 $\pm$ 8%                         | XXXXXX       | 056A7       | N/A              | Black         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                                    |
|------------|----------|-------|---------------|-------|-----|--|
|            | (mm)     | (in)  | (mm)          | (in)  |     |  |
| OD (A)     | 12.7     | 0.500 | 13.5          | 0.530 | max | Bulk Pack<br>4 bags/box<br>Box Qty= 5000 pcs |
| ID (B)     | 7.62     | 0.300 | 6.98          | 0.275 | min |  |
| HT (C)     | 4.75     | 0.187 | 5.52          | 0.217 | max |  |

| Electrical Characteristics                          |                        |     | Physical Characteristics                              |                         |   |   |                                 |  |            |
|---|------------------------|-----|---|-------------------------|---|---|---------------------------------|--|------------|
| Watt Loss @ 100 kHz, 100mT 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> ) | Weight (g) |
|   | 80%                    | 50% |   |                         |   |   |                                 |  |            |
| 700   | 83.0                   | 180 | 1000  | 15.0                    | 38.3  | 10.9  | 31.2                            | 340                                      | 2.1        |

| 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                              | 14.6               | Notes:                                 |
| 0%                      | 17.5 | 40%            | 21.1 | HT                              | 7.66               |  |
|                         |      |                |      | Max OD                          | 18.2               |  |
| 20%                     | 19.3 | 45%            | 21.7 | Max HT                          | 11.5               |  |
| 25%                     | 19.8 | 50%            | 22.1 | Surface Area (mm <sup>2</sup> ) |                    |  |
| 30%                     | 20.1 | 60%            | 23.2 | Unwound Core                    | 560                |  |
| 35%                     | 20.7 | 70%            | 24.5 | 40% Winding Factor              | 800                |  |

