



**0077057A7**

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| Kool M $\mu$<br>Permeability<br>( $\mu$ ) | A <sub>L</sub><br>(nH/T <sup>2</sup> ) | Core Marking  |                |                     | Coating<br>Color |
|-------------------------------------------|----------------------------------------|---------------|----------------|---------------------|------------------|
|                                           |                                        | Lot<br>Number | Part<br>Number | Inductance<br>Grade |                  |
| 19                                        | 9 ± 8%                                 | XXXXXX        | 77057A7        | N/A                 | Black            |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                                    |
|------------|----------|-------|---------------|-------|-----|----------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                              |
| OD (A)     | 12.70    | 0.500 | 13.46         | 0.530 | max | Bulk Pack<br>4 bags/box<br>Box Qty= 5000 pcs |
| ID (B)     | 7.62     | 0.300 | 6.99          | 0.275 | min |                                              |
| HT (C)     | 4.75     | 0.187 | 5.51          | 0.217 | max |                                              |

| Electrical Characteristics                                |                           |     | Physical Characteristics                                       |                               |                                                     |                                                       |                                       |                                             |               |
|-----------------------------------------------------------|---------------------------|-----|----------------------------------------------------------------|-------------------------------|-----------------------------------------------------|-------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------|
| Watt Loss<br>@ 100kHz, 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% |                                                                |                               |                                                     |                                                       |                                       |                                             |               |
| 1400                                                      | 125                       | 265 | 1250                                                           | 15.0                          | 38.4                                                | 10.9                                                  | 31.2                                  | 340                                         | 2.19          |

| Winding Information                    |      |                   |      |                                 | Temperature Rating |                   |
|----------------------------------------|------|-------------------|------|---------------------------------|--------------------|-------------------|
| Winding Length Per Turn                |      |                   |      | Wound Coil Dimensions (mm)      |                    | Curie Temp: 500°C |
| Winding<br>Factor                      | (mm) | Winding<br>Factor | (mm) | 40% Winding Factor              | OD                 | 15.1              |
|                                        |      |                   |      |                                 | HT                 | 7.91              |
| 0%                                     | 17.5 | 40%               | 21.2 | Completely Full Window          | Max OD             | 15.1              |
| 20%                                    | 19.3 | 45%               | 21.6 |                                 | Max HT             | 10.3              |
| 25%                                    | 19.8 | 50%               | 22.2 | Surface Area (mm <sup>2</sup> ) |                    |                   |
| 30%                                    | 20.1 | 60%               | 23.3 | Unwound Core                    |                    | 560               |
| 35%                                    | 20.7 | 70%               | 24.5 | 40% Winding Factor              |                    | 810               |
| Coating Temp (Continuous up to): 200°C |      |                   |      |                                 |                    |                   |
| Notes:                                 |      |                   |      |                                 |                    |                   |

