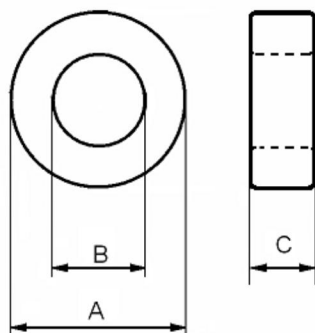




**0077619A7**

110 Delta Drive  
Pittsburgh, PA 15238  
NAFTA Sales: (1)800-245-3984  
HK Sales : (852)3102-9337  
magnetics@spang.com  
www.mag-inc.com



| 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 |                  |
| 90                                        | 284 $\pm$ 8%                           | XXXXXX        | 77619A7        | N/A                 | Black            |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 45 pcs |
|------------|----------|-------|---------------|-------|-----|--------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                        |
| OD (A)     | 61.98    | 2.440 | 63.09         | 2.484 | max |                                                        |
| ID (B)     | 32.59    | 1.283 | 31.70         | 1.248 | min |                                                        |
| HT (C)     | 24.99    | 0.984 | 25.91         | 1.020 | max |                                                        |

| Electrical Characteristics                    |                           |     | Physical Characteristics                                       |                               |                                        |                                          |                                       |                                |               |
|-----------------------------------------------|---------------------------|-----|----------------------------------------------------------------|-------------------------------|----------------------------------------|------------------------------------------|---------------------------------------|--------------------------------|---------------|
| Watt Loss<br>@ 100 kHz, 100mT<br>max (mW/cm³) | DC Bias<br>min (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> (mm²) | Cross<br>Section<br>A <sub>e</sub> (mm²) | Path<br>Length<br>L <sub>e</sub> (mm) | Volume<br>V <sub>e</sub> (mm³) | Weight<br>(g) |
| 900                                           | 80%                       | 50% | 3000                                                           | 193.0                         | 789                                    | 360                                      | 144                                   | 51,800                         | 332           |
|                                               | 21                        | 52  |                                                                |                               |                                        |                                          |                                       |                                |               |

| 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         | OD     | 75.3               | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      |                            | HT     | 39.7               |                                        |
|                         |      |                |      | Completely Full Window     | Max OD | 81.4               | Notes:                                 |
|                         |      |                |      |                            | Max HT | 47.4               |                                        |
| 0%                      | 83.0 | 40%            | 99.5 | Surface Area (mm²)         |        |                    |                                        |
| 20%                     | 91.3 | 45%            | 102  |                            |        |                    |                                        |
| 25%                     | 93.4 | 50%            | 104  |                            |        |                    |                                        |
| 30%                     | 94.9 | 60%            | 109  | Unwound Core               |        | 12,000             |                                        |
| 35%                     | 97.5 | 70%            | 115  | 40% Winding Factor         |        | 21,000             |                                        |

## Typical DC Bias Performance

