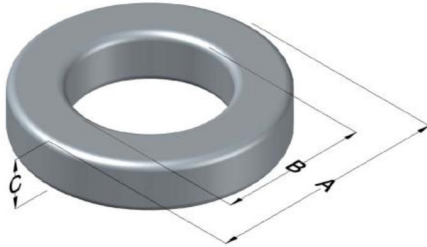




# C055930M4

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



| MPP Permeability ( $\mu$ ) | $A_L$ (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|----------------------------|----------------------------|--------------|-------------|------------------|---------------|
|                            |                            | Lot Number   | Part Number | Inductance Grade |               |
| 125                        | 157 $\pm$ 8%               | XXXXXX       | 55930M4     | X                | Gray          |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging                              |
|------------|----------|-------|---------------|-------|-----|--|
|            | (mm)     | (in)  | (mm)          | (in)  |     |  |
| OD (A)     | 26.92    | 1.060 | 27.69         | 1.090 | max | Cardboard cut-outs<br>Box Qty= 400 pcs |
| ID (B)     | 14.73    | 0.580 | 14.10         | 0.555 | min |  |
| HT (C)     | 11.18    | 0.440 | 11.94         | 0.470 | 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%  |   |                         |   |   |                                 |  |            |
| 850  | 25                     | 48.5 | 3000  | 77.0                    | 156   | 65.4  | 63.5                            | 4,150                                    | 36         |

| Winding Information  |      |                |      |                                 | Temperature Rating |                    |
|--|------|----------------|------|---------------------------------|--------------------|--------------------|
| Winding Length Per Turn  |      |                |      | Wound Coil Dimensions (mm)      |                    | Curie Temp: 460 °C |
| Winding Factor   | (mm) | Winding Factor | (mm) | 40% Winding Factor              | OD                 | 30.0               |
|  |      |                |      |                                 | HT                 | 16.5               |
| 0%   | 37.5 | 40%            | 44.6 | Completely Full Window          | Max OD             | 37.3               |
| 20%  | 41.1 | 45%            | 45.7 |                                 | Max HT             | 24.0               |
| 25%  | 41.9 | 50%            | 46.6 | Surface Area (mm <sup>2</sup> ) |                    |                    |
| 30%  | 42.8 | 60%            | 48.8 | Unwound Core                    | 2,400              |                    |
| 35%  | 43.8 | 70%            | 51.3 | 40% Winding Factor              | 3,500              |                    |
| Notes:<br>M4 stabilization: Controlled stabilization with Inductance stability limits of +/- 0.25% over temperature range -65°C to +125°C measured at low drive level (<10mT). For power inductors use standard stabilization, A2. |      |                |      |                                 |                    |                    |

