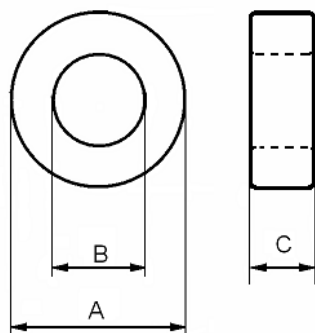




# C055180A2

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| MPP Permeability ( $\mu$ ) | $A_L$ (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|----------------------------|----------------------------|--------------|-------------|------------------|---------------|
|                            |                            | Lot Number   | Part Number | Inductance Grade |               |
| 125                        | 42 $\pm$ 8%                | N/A          | N/A         | N/A              | Gray          |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Bulk Pack<br>5 vials/box<br>Box Qty= 5000 pcs |
|------------|----------|-------|---------------|-------|-----|----------------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                                |
| OD (A)     | 4.65     | 0.183 | 5.29          | 0.208 | max |                                                                |
| ID (B)     | 2.36     | 0.093 | 1.85          | 0.073 | min |                                                                |
| HT (C)     | 2.54     | 0.100 | 3.18          | 0.125 | max |                                                                |

| Electrical Characteristics                                |                         |      | Physical Characteristics                                    |                            |                                                  |                                                    |                                    |                                             |            |
|-----------------------------------------------------------|-------------------------|------|-------------------------------------------------------------|----------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------|---------------------------------------------|------------|
| Watt Loss<br>@ 100 kHz, 100mT<br>max(mW/cm <sup>3</sup> ) | DC Bias<br>min (A-T/cm) |      | Voltage Breakdown<br>wire to wire<br>min (V <sub>AC</sub> ) | Break Strength<br>min (kg) | Window Area<br>W <sub>A</sub> (mm <sup>2</sup> ) | Cross Section<br>A <sub>e</sub> (mm <sup>2</sup> ) | Path Length<br>L <sub>e</sub> (mm) | Volume<br>V <sub>e</sub> (mm <sup>3</sup> ) | Weight (g) |
| 950                                                       | 80%                     | 50%  | ~*                                                          | 2.1                        | 2.69                                             | 2.85                                               | 10.6                               | 30.3                                        | 0.25       |
|                                                           | 19.8                    | 38.5 |                                                             |                            |                                                  |                                                    |                                    |                                             |            |

| Winding Information     |      |                |      |                            |  | Temperature Rating                                                                                                              |  |     |  |
|-------------------------|------|----------------|------|----------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|-----|--|
| Winding Length Per Turn |      |                |      | Wound Coil Dimensions (mm) |  | Curie Temp: 460°C                                                                                                               |  |     |  |
| Winding Factor          | (mm) | Winding Factor | (mm) |                            |  | Coating Temp (Continuous up to): 200°C                                                                                          |  |     |  |
|                         |      |                |      | Maximum OD (70%)           |  | 6.65                                                                                                                            |  |     |  |
| 0%                      |      |                |      | Maximum HT (70%)           |  | 4.94                                                                                                                            |  |     |  |
| 20%                     |      |                |      | Surface Area (mm²)         |  | Notes:<br><br>MPP cores 4.65 mm and smaller are graded into 5% bands.<br>*No voltage breakdown min for A2 or A7 with OD ≤4.65mm |  |     |  |
| 25%                     |      |                |      |                            |  |                                                                                                                                 |  |     |  |
| 30%                     |      |                |      |                            |  |                                                                                                                                 |  |     |  |
| 35%                     |      |                |      | Unwound Core               |  |                                                                                                                                 |  | 111 |  |
|                         |      |                |      | 40% Winding Factor         |  |                                                                                                                                 |  | 150 |  |

## Typical DC Bias Performance

