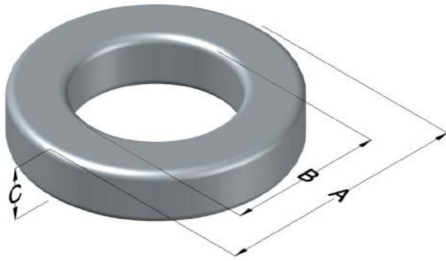




**C055250A2**

110 Delta Drive  
Pittsburgh, PA 15238  
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HK Sales : (852)3102-9337  
magnetics@spang.com  
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| MPP<br>Permeability<br>( $\mu$ ) | $A_L$<br>(nH/T <sup>2</sup> ) | Core Marking  |                |                     | Coating<br>Color |
|----------------------------------|-------------------------------|---------------|----------------|---------------------|------------------|
|                                  |                               | Lot<br>Number | Part<br>Number | Inductance<br>Grade |                  |
| 550                              | 740 $\pm$ 8%                  | XXXXXX        | 55250A2        | X                   | Gray             |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 180 pcs |
|------------|----------|-------|---------------|-------|-----|---------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                         |
| OD (A)     | 39.88    | 1.570 | 40.77         | 1.605 | max |                                                         |
| ID (B)     | 24.13    | 0.950 | 23.32         | 0.918 | min |                                                         |
| HT (C)     | 14.48    | 0.570 | 15.37         | 0.605 | 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) |
| 2000                                         | 80%                       | 50% | 3000                                                           | 126                           | 427                                    | 107                                      | 98.4                                  | 10,600                         | 95.68         |
|                                              | 1.5                       | 4.2 |                                                                |                               |                                        |                                          |                                       |                                |               |

| 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     | 44.3               | Coating Temp (Continuous up to): 200 °C |        |
|                         |      |                |      |                            | HT     | 22.4               |                                         |        |
|                         |      |                |      | Completely Full Window     | Max OD | 56.4               |                                         | Notes: |
|                         |      |                |      |                            | Max HT | 35.2               |                                         |        |
| 0%                      | 48.2 | 40%            | 60.2 | Surface Area (mm²)         |        |                    |                                         |        |
| 20%                     | 54.3 | 45%            | 62.1 |                            |        |                    |                                         |        |
| 25%                     | 55.8 | 50%            | 63.7 |                            |        |                    |                                         |        |
| 30%                     | 57.0 | 60%            | 67.3 | Unwound Core               |        | 4,800              |                                         |        |
| 35%                     | 58.8 | 70%            | 71.5 | 40% Winding Factor         |        | 7,300              |                                         |        |

## Typical DC Bias Performance

