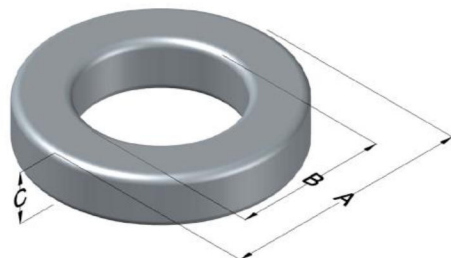




**0075330A7**

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HK Sales : (852)3102-9337  
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| 75 Material Permeability ( $\mu$ ) | $A_L$ (nH/T <sup>2</sup> ) | Core Marking |             |                  | Coating Color |
|------------------------------------|----------------------------|--------------|-------------|------------------|---------------|
|                                    |                            | Lot Number   | Part Number | Inductance Grade |               |
| 40                                 | 37 $\pm$ 8%                | XXXXXX       | 75330A7     | N/A              | Black         |

| Dimensions | Uncoated |       | Coated Limits |       |     | Packaging<br><br>Cardboard cut-outs<br>Box Qty= 220 pcs |
|------------|----------|-------|---------------|-------|-----|---------------------------------------------------------|
|            | (mm)     | (in)  | (mm)          | (in)  |     |                                                         |
| OD (A)     | 35.81    | 1.410 | 36.70         | 1.445 | max |                                                         |
| ID (B)     | 22.35    | 0.880 | 21.54         | 0.848 | min |                                                         |
| HT (C)     | 10.46    | 0.412 | 11.35         | 0.447 | max |                                                         |

| Electrical Characteristics                         |                        |     | Physical Characteristics                              |                         |                                               |                                                 |                                 |                                          |            |
|----------------------------------------------------|------------------------|-----|-------------------------------------------------------|-------------------------|-----------------------------------------------|-------------------------------------------------|---------------------------------|------------------------------------------|------------|
| Watt Loss @ 50 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) |
| 850                                                | 80%                    | 50% | 3000                                                  | 80                      | 364                                           | 67.8                                            | 89.8                            | 6,090                                    | 39         |
|                                                    | 85                     | 180 |                                                       |                         |                                               |                                                 |                                 |                                          |            |

| 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     | 40.2               | Coating Temp (Continuous up to): 200°C |
|                         |      |                |      |                            | HT     | 18.4               |                                        |
|                         |      |                |      | Completely Full Window     | Max OD | 51.1               | Notes:                                 |
|                         |      |                |      |                            | Max HT | 29.6               |                                        |
| 0%                      | 37.9 | 40%            | 48.9 | Surface Area (mm²)         |        |                    |                                        |
| 20%                     | 43.5 | 45%            | 50.6 |                            |        |                    |                                        |
| 25%                     | 44.8 | 50%            | 52.0 |                            |        |                    |                                        |
| 30%                     | 46.0 | 60%            | 55.5 | Unwound Core               |        | 3,400              |                                        |
| 35%                     | 47.6 | 70%            | 59.3 | 40% Winding Factor         |        | 5,700              |                                        |

## Typical DC Bias Performance

