

# CM172125G

## Electrical Characteristics

| Material | Permeability ( $\mu$ ) | AL $\pm$ 8% (nH/N <sup>2</sup> ) | DCB (% min) @ 20 Oe | Coreloss (mW/cm <sup>3</sup> , max) @ 50kHz, 1000G |
|----------|------------------------|----------------------------------|---------------------|--|
| MPP      | 125                    | 89                               | 80.04               | 290  |

OD : 172



## Core Dimensions

| Dimensions |       | Uncoated |        | Coated |        | Color | Packaging           |
|------------|-------|----------|--------|--------|--------|-------|---------------------|
|            |       | (mm)     | (inch) | (mm)   | (inch) |       |                     |
| OD         | (Max) | 17.27    | 0.680  | 18.03  | 0.710  | Black | Box Qty = 1,960 pcs |
| ID         | (min) | 9.65     | 0.380  | 9.02   | 0.355  |       |                     |
| HT         | (max) | 6.35     | 0.250  | 7.11   | 0.280  |       |                     |

## Physical Characteristics

| Cross Section (A)      | Path Length ( $l$ ) | Window Area (Wa)      | Volume (V)              | Breakdown Voltage (Vac) |
|------------------------|---------------------|-----------------------|-------------------------|-------------------------|
| 0.232 cm <sup>2</sup>  | 4.14 cm             | 0.638 cm <sup>2</sup> | 0.9605 cm <sup>3</sup>  | 1,000                   |
| 0.0360 in <sup>2</sup> | 1.63 in             | 125,913 cmil          | 0.05861 in <sup>3</sup> |                         |

## Winding Information

|  |      |      |
|--|------|------|
| 0% Winding length/turn (cm)                        |      |      |
| 2.323  |      |      |
| 40% winding factor Surface Area (cm <sup>2</sup> ) |      |      |
| 13.91  |      |      |
| 40% Wound Di.(mm)                                  |      |      |
| OD   | ID   | HT   |
| 20.24  | 5.90 | 9.77 |

For Your Reference Only

## Typical DC Bias Performance

