

# CM508125G

## 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, 500G |
|----------|------------------------|----------------------------------|---------------------|---------------------------------------------------|
| MPP      | 125                    | 152                              | 80.04               | 72                                                |

OD : 508



## Core Dimensions

| Dimensions |       | Uncoated |        | Coated |        | Color | Packaging        |
|------------|-------|----------|--------|--------|--------|-------|------------------|
|            |       | (mm)     | (inch) | (mm)   | (inch) |       |                  |
| OD         | (Max) | 50.80    | 2.000  | 51.70  | 2.035  | Black | Box Qty = 96 pcs |
| ID         | (min) | 31.75    | 1.250  | 30.90  | 1.217  |       |                  |
| HT         | (max) | 13.46    | 0.530  | 14.35  | 0.565  |       |                  |

## Physical Characteristics

| Cross Section (A)     | Path Length ( $l$ ) | Window Area (Wa)     | Volume (V)             | Breakdown Voltage (Vac) |
|-----------------------|---------------------|----------------------|------------------------|-------------------------|
| 1.250 cm <sup>2</sup> | 12.73 cm            | 7.50 cm <sup>2</sup> | 15.913 cm <sup>3</sup> | 1,000                   |
| 0.194 in <sup>2</sup> | 5.01 in             | 1,480,166 cmil       | 0.971 in <sup>3</sup>  |                         |

## Winding Information

|                                                    |       |       |
|----------------------------------------------------|-------|-------|
| 0% Winding length/turn (cm)                        |       |       |
| 4.950                                              |       |       |
| 40% winding factor Surface Area (cm <sup>2</sup> ) |       |       |
| 108.52                                             |       |       |
| 40% Wound Di.(mm)                                  |       |       |
| OD                                                 | ID    | HT    |
| 59.57                                              | 20.23 | 23.62 |

## Typical DC Bias Performance

