

# HIGH FREQUENCY EMI SUPPRESSION CORE BC-HS208 SERIES

## Applications:

- NiZn Ferrite
- Higher Frequency choking (200-1000Mhz)
- High Frequency Common Mode Chokes
- Round Cable EMI suppression cores

## Electrical Characteristics

| Frequency | Typical Impedance (Ohm) |
|-----------|-------------------------|
| 100Mhz    | 190                     |
| 250Mhz    | 300                     |
| 500Mhz    | 380                     |
| 1000Mhz   | 400                     |

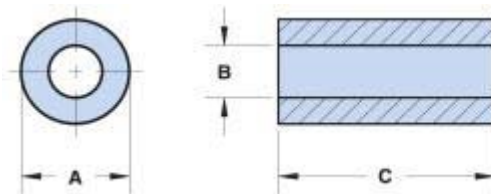
## Ferrite Material Constants

|                          |   |
|--------------------------|---|
| Specific Heat            | 0.25 cal/g/°C   |
| Thermal Conductivity     | 0.01 cal/sec/cm/°C                                      |
| Coe. Of Linear Expension | $8 \times 10^{-6} - 10 \times 10^{-6} / ^\circ\text{C}$ |
| Tensile Strength         | 4.9 kgf/mm <sup>2</sup>                                 |
| Compressive Strength     | 42kgf/mm <sup>2</sup>                                   |
| Young's Modulus          | 15000 kgf/mm <sup>2</sup>                               |
| Hardness (knoop)         | 650   |
| Specific Gravity         | ~4.7g/cm <sup>3</sup>                                   |

## Ferrite Material Characteristics

|   |  |
|---|--|
| Initial Permeability @ B< 10 gauss                  | 125                                      |
| Flux Density B@ H = 15 oersted                      | 2350 Gauss                               |
| Residual Flux Density                               | 1200 Gauss                               |
| Coercive Force                                      | 1.8 oersted                              |
| Loss Factor@ 1.0 Mhz                                | $30 \times 10^{-6}$                      |
| Temp Coefficient of Initial Permeability (20-70 °C) | 0.10 %/°C                                |
| Curie Temperature                                   | > 300 °C                                 |
| Resistivity   | $1 \times 10^5 \text{ Ohm}^* \text{ cm}$ |

## SHAPE and DIMENSIONS (Unit: mm)



| Dimension | Unit(mm)    |
|-----------|-------------|
| A         | 26.0 ± 0.50 |
| B         | 12.5 ± 0.50 |
| C         | 29.0 ± 0.50 |