



# CMD100T0804BT COMMON MODE FILTER SPECIFICATION

Rev. A

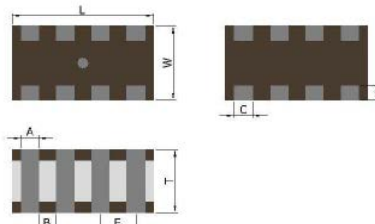
## PRODUCT FEATURES

1. Surface mount dual common mode filter with a small size of 2.00 X 1.05 X 0.90 mm, RoHS compliant.
2. Provide wide pass band and high attenuation for common mode noise.
3. Highly stable under temperature and humidity changes.

## RF CHARACTERISTICS

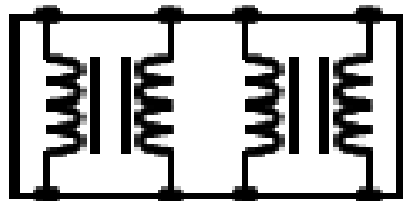
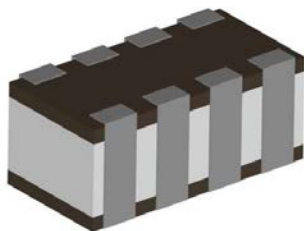
| P/N CMD100T0804BT                       | Specification              |
|-----------------------------------------|----------------------------|
| Cut-off Frequency                       | 3.5 GHz (Typical)          |
| Common Mode Impedance                   | 90 ohms $\pm$ 25% @ 100MHz |
| DC Resistance                           | 1.0 $\Omega$ max.          |
| Rated Current                           | 300 mA                     |
| Characteristic Impedance (Differential) | 100 $\Omega$ (Typical)     |
| Operating temperature range             | -40°C to +85°C             |

## PHYSICAL DIMENSIONS

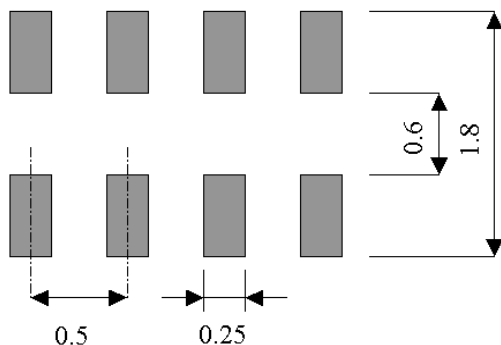


| Symbol | Dimension (mm)  |
|--------|-----------------|
| L      | 2.00 $\pm$ 0.15 |
| W      | 1.05 $\pm$ 0.15 |
| T      | 0.90 $\pm$ 0.10 |
| A      | 0.25 $\pm$ 0.15 |
| B      | 0.25 $\pm$ 0.10 |
| C      | 0.35 $\pm$ 0.15 |
| D      | 0.20 $\pm$ 0.15 |
| E      | 0.50 $\pm$ 0.15 |

## TERMINAL CONFIGURATION



## PCB DESIGN/LAYOUT CONSIDERATION



### Note:

- Unit in mm
- Design trace width to be 50 $\Omega$  impedance.



## Typical RF Characteristic

