

## Wire Wound Common Mode Filter

### MCU Series Wire Wound Common Filter

### Applications

Current compensated choke for data and signal lines.

Power supply system.

Signal and sensor lines Suppression of common mode noise.



### Dimensions (mm)

### Product Identification

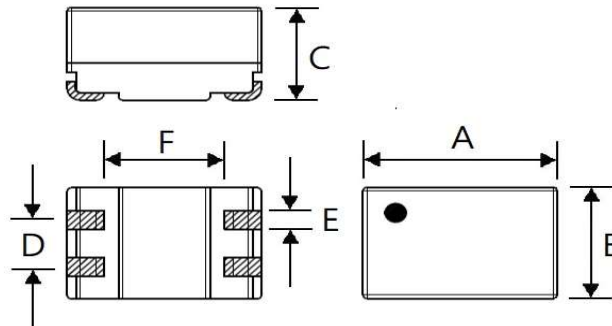
MCU - 0905 - 50 1

MCU : SERIES NAME

0905 : Dimensions CODE

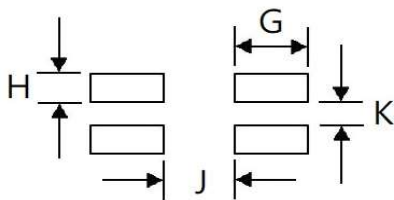
50 : Inductance( $\mu$ H)

1 : Fixed Decimal Point



| Size     | A              | B              | C              | D              | E              | F       |
|----------|----------------|----------------|----------------|----------------|----------------|---------|
| MCU-0905 | 9.20 $\pm$ 0.3 | 6.00 $\pm$ 0.3 | 5.00 $\pm$ 0.3 | 2.54 $\pm$ 0.2 | 1.00 $\pm$ 0.1 | 5.7 ref |

### Recommended Pattern(mm)



| Size     | G | H   | J   | K    |
|----------|---|-----|-----|------|
| MCU-0905 | 2 | 1.2 | 5.5 | 1.34 |
|          |   |     |     |      |
|          |   |     |     |      |
|          |   |     |     |      |

## Wire Wound Common Mode Choke

### MCA Series Wire Wound Common Choke

#### Electrical Characteristics

| Part Number         | Inductance<br>( $\mu$ H) | Test Freq. | DCR( $\Omega$ )<br>(MAX) | IDC(A)<br>(MAX) | Insulation Resistance<br>IR (M $\Omega$ ) Min. | Impedance ( $\Omega$ )<br>100MHz |
|---------------------|--------------------------|------------|--------------------------|-----------------|--|----------------------------------|
| <b>MCU-0905-100</b> | 10 $\pm$ 30%             | 1KHz/0.1V  | <b>0.08</b>              | 1.6             | 920 Typ  | 920                              |
| <b>MCU-0905-510</b> | 51 $\pm$ 30%             | 1KHz/0.1V  | <b>0.16</b>              | 1.0             | 1500   | 5500                             |
| <b>MCU-0905-251</b> | 250 $\pm$ 50%            | 1KHz/0.1V  | <b>0.13</b>              | 1.2             | 600  | 1800                             |
| <b>MCU-0905-501</b> | 500 $\pm$ 50%            | 1KHz/0.1V  | <b>0.15</b>              | 1.3             | <b>1000</b>                                    | <b>3300</b>                      |
| <b>MCU-0905-102</b> | 1000 $\pm$ 50%           | 1KHz/0.1V  | <b>0.31</b>              | 0.8             | <b>1500</b>                                    | <b>6000</b>                      |
| <b>MCU-0905-202</b> | 2000 $\pm$ 50%           | 1KHz/0.1V  | <b>0.42</b>              | <b>0.6</b>      | <b>3000</b>                                    | <b>9200</b>                      |