

\*All the data listed in this catalogue are for reference only, company reserves the right to alter or revise the specifications without prior notification.

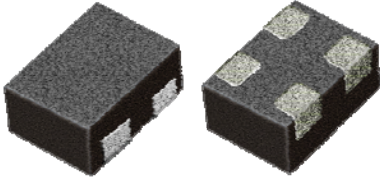
\*Detailed specifications are available upon request.

\*Customized specifications are available, please contact company for the details.

| Type                          | Fig                                                                                 | TJ P/N  | Main Dimensions(mm) |           |          | Page    |
|-------------------------------|-------------------------------------------------------------------------------------|---------|---------------------|-----------|----------|---------|
|                               |                                                                                     |         | L                   | W         | H        |         |
| Thin Film Common Mode Filters |    | CMF0605 | 0.65±0.05           | 0.55±0.05 | 0.3±0.05 | P2~P4   |
|                               |                                                                                     | CMF0806 | 0.85±0.05           | 0.65±0.05 | 0.4±0.05 |         |
| Power Inductors (Shielded)    |    | FRH73   | 7.2±0.3             | 7.2±0.3   | 3.2±0.3  | P5~P7   |
|                               |                                                                                     | FRH74   | 7.2±0.3             | 7.2±0.3   | 4.2±0.3  |         |
| Power Inductors (Shielded)    |  | FRH103  | 10.2±0.3            | 10.0±0.3  | 3.1Max   | P8~P11  |
|                               |                                                                                     | FRH104  | 10.2±0.3            | 10.0±0.3  | 4.0Max   |         |
|                               |                                                                                     | FRH105  | 10.2±0.3            | 10.0±0.3  | 5.1Max   |         |
| Power Inductors               |  | FDO3316 | 12.95Max            | 9.80Max   | 5.21Max  | P12~P15 |
|                               |                                                                                     | FDO3340 | 12.95Max            | 9.80Max   | 11.43Max |         |
|                               |                                                                                     | FDO5022 | 18.54Max            | 15.24Max  | 7.11Max  |         |
| SMD Molding Power Inductors   |  | FPM0420 | 4.49±0.40           | 4.06±0.30 | 2.0Max   | P16~P20 |
|                               |                                                                                     | FPM0520 | 5.60±0.30           | 5.00±0.30 | 2.0Max   |         |
|                               |                                                                                     | FPM0630 | 7.30±0.30           | 6.60±0.30 | 3.0Max   |         |
|                               |                                                                                     | FPM1040 | 11.0±0.50           | 10.0±0.30 | 4.0Max   |         |
| Power Inductors               |  | CD43    | 4.0±0.3             | 4.5±0.3   | 3.2±0.3  | P21~P23 |
|                               |                                                                                     | CD54    | 5.2±0.3             | 5.8±0.3   | 4.5±0.3  |         |

## Thin Film Common Mode Filters

### CMF0605&0806 Series



- Common Mode Filters
- Thin film deposition process
- Impedance Range: 0 to 90Ω
- Operating temperature -25℃ to +85℃
- Rohs compliant

### Product Identification

| <u>CMF</u> | <u>0605</u> | <u>S</u> | <u>350</u> | <u>2P</u> |
|------------|-------------|----------|------------|-----------|
| ①          | ②           | ③        | ④          | ⑤         |

- ① Product Symbol.
- ② Product dimensions
- ③ Product internal code
- ④ Impedance(at 100MHz): 900 = 90Ω , 350 = 35Ω , 120 = 12Ω , 070 = 7Ω
- ⑤ Line Code: 2P= 2 lines

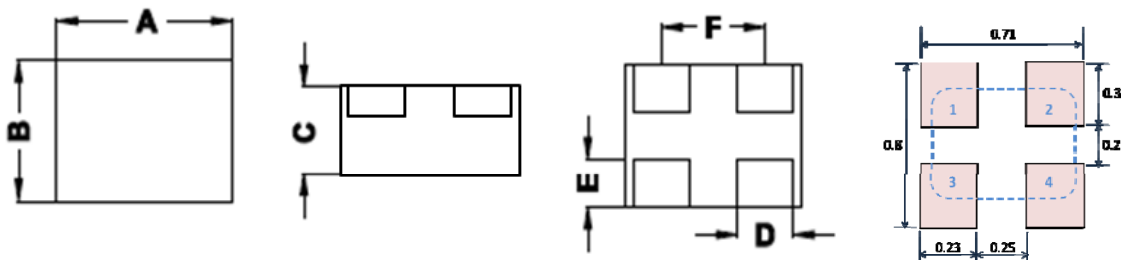
### Features

- Effective for suppressing common mode noise at high frequency
- Excellent solderability characteristics
- Small size & low profile
- SMD component based on Thin film deposition process

### Applications

- Common mode noise suppression of high speed differential signal lines, such as MIPI, MHL, HDMI in mobile phone, tablet PC, TV etc.

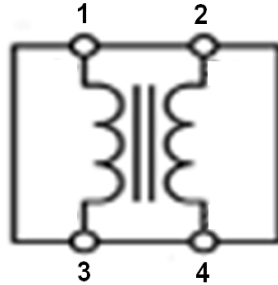
### External Dimensions (Unit:m/m)



| Type    | A         | B         | C        | D         | E        | F       |
|---------|-----------|-----------|----------|-----------|----------|---------|
| CMF0605 | 0.65±0.05 | 0.55±0.05 | 0.3±0.05 | 0.2±0.05  | 0.15±0.1 | 0.3±0.1 |
| CMF0806 | 0.85±0.05 | 0.65±0.05 | 0.4±0.05 | 0.27±0.05 | 0.2±0.1  | 0.5±0.1 |

## Thin Film Common Mode Filters

### Equivalent Circuit



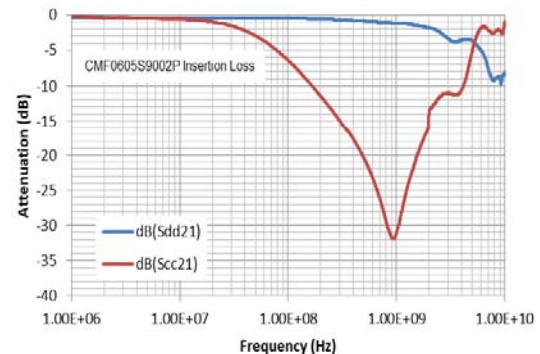
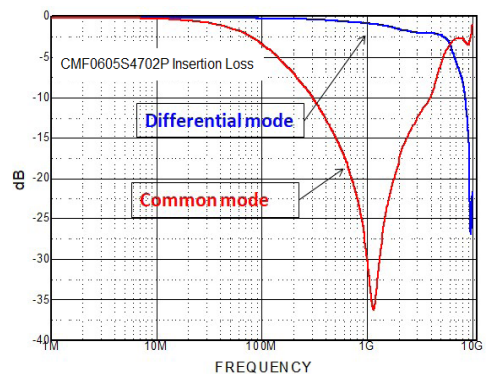
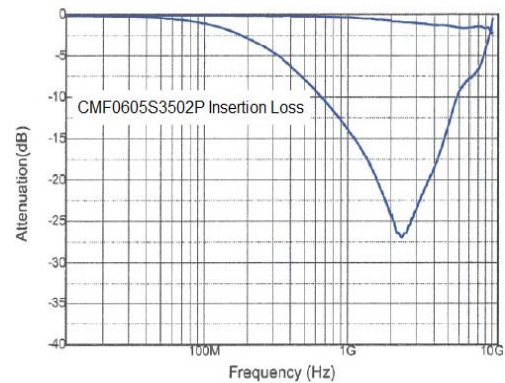
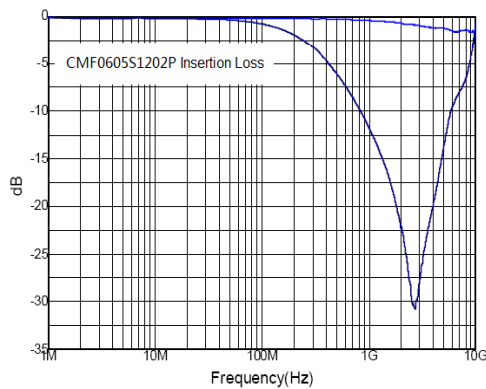
• No Polarity

### Electrical Specifications

#### CMF0605 Series

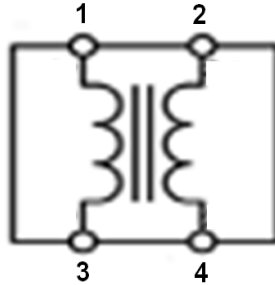
| Part Number   | Common Mode Impedance at 100 MHz( $\Omega$ ) | Max.DC Resistance Rdc ( $\Omega$ ) | Rated Voltage (V) | Rated Current (mA) | Insulation Resistance I.R.(M $\Omega$ ) |
|---------------|----------------------------------------------|------------------------------------|-------------------|--------------------|-----------------------------------------|
| CMF0605S1202P | 12 $\pm$ 25%                                 | 2.5                                | 5                 | 100                | 10                                      |
| CMF0605S3502P | 35 $\pm$ 25%                                 | 2.5                                | 5                 | 100                | 10                                      |
| CMF0605S4702P | 47 $\pm$ 25%                                 | 3.2                                | 5                 | 100                | 10                                      |
| CMF0605S9002P | 90 $\pm$ 25%                                 | 4.0                                | 5                 | 100                | 10                                      |

### Electrical Characteristics



## Thin Film Common Mode Filters

### Equivalent Circuit



• No Polarity

### Electrical Specifications

#### CMF0806 Series

| Part Number   | Common Mode Impedance at 100 MHz( $\Omega$ ) | Max.DC Resistance Rdc ( $\Omega$ ) | Rated Voltage (V) | Rated Current (mA) | Insulation Resistance I.R.(M $\Omega$ ) |
|---------------|----------------------------------------------|------------------------------------|-------------------|--------------------|-----------------------------------------|
| CMF0806S1202P | 12 $\pm$ 25%                                 | 1.7                                | 5                 | 100                | 10                                      |
| CMF0806S3502P | 35 $\pm$ 25%                                 | 2.5                                | 5                 | 100                | 10                                      |
| CMF0806S4702P | 47 $\pm$ 25%                                 | 3.5                                | 5                 | 100                | 10                                      |
| CMF0806S9002P | 90 $\pm$ 25%                                 | 4.0                                | 5                 | 100                | 10                                      |

### Electrical Characteristics

