

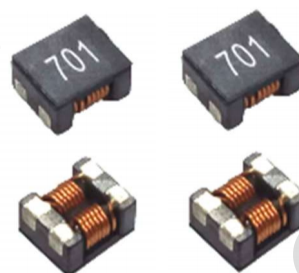
## Current Compensated Ring Core Double Chokes LCM7060-LCM1513-Series

Features:

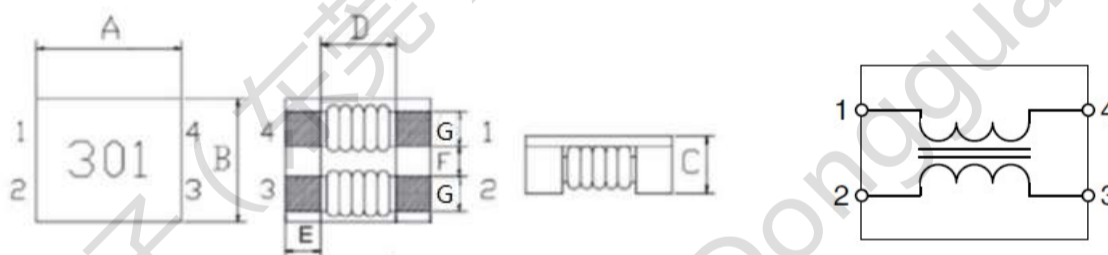
- 1、 LCM realizes big size and High current
- 2、 High Impedance and Excellent Frequency Characteristic.
- 3、 Self Electromagnetic Shielding.
- 4、 Low Magnetic Flux Leakage

Applications:

Used for power line noise suppression for any electronic devices.  
Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc.



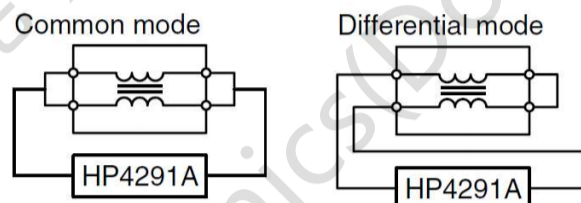
### 1. SHAPES AND DIMENSIONS Unit:mm



| PartNumber | A        | B        | C       | D Typ | E(ref) | F(ref) | G(ref) |
|------------|----------|----------|---------|-------|--------|--------|--------|
| LCM7060    | 7.0±0.5  | 6.0±0.5  | 3.5±0.3 | 3.5   | 1.5    | 1.5    | 1.75   |
| LCM9070    | 9.5±0.5  | 7.0±0.5  | 5.0±0.3 | 5.5   | 1.75   | 2.0    | 1.75   |
| LCM1211    | 12.5±0.5 | 10.8±0.5 | 6.5MAX  | 7.0   | 2.7    | 2.7    | 2.50   |
| LCM1513    | 15.5±0.5 | 13.0±0.5 | 6.8/MAX | 9.0   | 3.0    | 3.0    | 3.3    |

### 2. MEASURING CIRCUITS

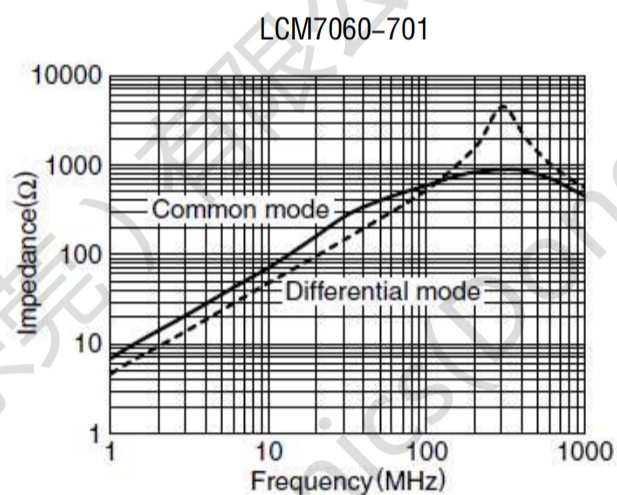
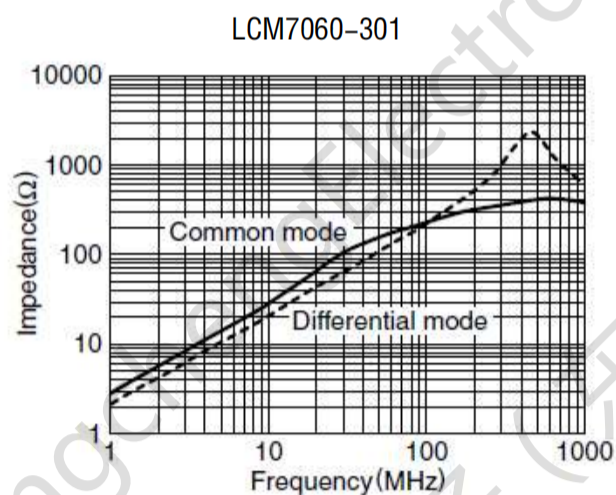
- A chip-type common mode filter for large current applications. Common mode impedance surpasses 300 to 1000 $\Omega$  at 100MHz. Noise is greatly suppressed.
- Capable of handling the highest current (up to 10A) of any chip type common mode filter.
- Height and size have been considered, resulting in a compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.
- The products contain no lead and also support lead-free soldering.
- This product does not contain regulated substances that are slated to be included in RoHS.



### 3.ELECTRICAL CHARACTERISTICS

| PART Number | Z( $\Omega$ ) at 100 MHz |      | RDC(m $\Omega$ ) max | Rated Current (A)Max | IR (M $\Omega$ )Min | Rated Voltage Vdc(V) |
|-------------|--------------------------|------|----------------------|----------------------|---------------------|----------------------|
|             | Min                      | TYP  |                      |                      |                     |                      |
| LCM7060-101 | 100                      | 140  | 10                   | 9                    | 10                  | 80-125               |
| LCM7060-301 | 225                      | 300  | 10                   | 5                    | 10                  |                      |
| LCM7060-501 | 275                      | 350  | 10                   | 5                    | 10                  |                      |
| LCM7060-601 | 500                      | 700  | 15                   | 4                    | 10                  |                      |
| LCM7060-701 | 500                      | 700  | 15                   | 4                    | 10                  |                      |
| LCM7060-102 | 800                      | 1020 | 17                   | 3                    | 10                  |                      |
| LCM7060-132 | 910                      | 1300 | 21                   | 2.5                  | 10                  |                      |
| LCM7060-222 | 1700                     | 2000 | 60                   | 1.2                  | 10                  |                      |
| LCM7060-272 | 2000                     | 2700 | 65                   | 1.0                  | 10                  |                      |
| LCM7060-302 | 2200                     | 3500 | 80                   | 0.8                  | 10                  |                      |

### 4. IMPEDANCE vs. FREQUENCY CHARACTERISTICS

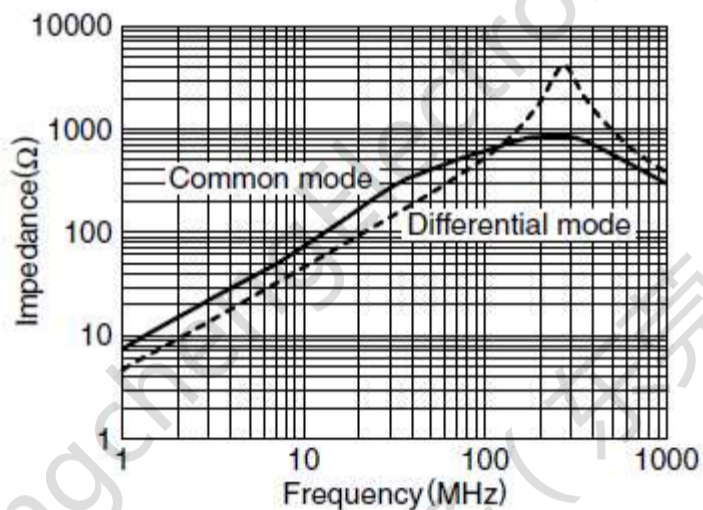


### 5.ELECTRICAL CHARACTERISTICS

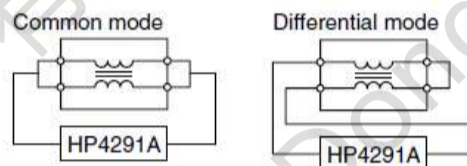
| PART Number | Z( $\Omega$ ) at 100 MHz |      | RDC(m $\Omega$ ) Max | Rated Current (A)Max | IR (M $\Omega$ )Min | Rated Voltage Vdc(V) |
|-------------|--------------------------|------|----------------------|----------------------|---------------------|----------------------|
|             | Min                      | TYP  |                      |                      |                     |                      |
| LCM9070-301 | 225                      | 300  | 6.0                  | 10.0                 | 10                  | 50-80                |
| LCM9070-501 | 450                      | 600  | 8.0                  | 8.0                  | 10                  |                      |
| LCM9070-701 | 500                      | 700  | 10.0                 | 6.0                  | 10                  |                      |
| LCM9070-102 | 750                      | 1000 | 13.0                 | 5.0                  | 10                  |                      |
| LCM9070-152 | 1000                     | 1500 | 15.0                 | 4.5                  | 10                  |                      |
| LCM9070-202 | 1500                     | 2000 | 20.0                 | 4.0                  | 10                  |                      |
| LCM9070-222 | 1700                     | 2200 | 28.0                 | 4.0                  | 10                  |                      |
| LCM9070-272 | 2000                     | 2700 | 40.0                 | 3.5                  | 10                  |                      |
| LCM9070-302 | 2400                     | 3200 | 45.0                 | 3.0                  | 10                  |                      |

### 6.IMPEDANCE vs. FREQUENCY CHARACTERISTICS

LCM9070-701



#### MEASURING CIRCUITS



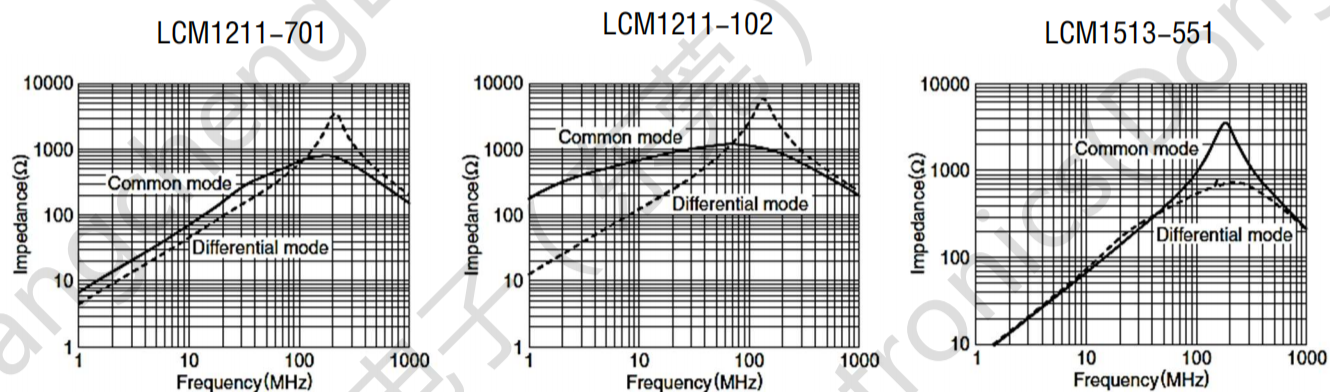
## 7.ELECTRICAL CHARACTERISTICS

| PART Number | Z( $\Omega$ ) at 100 MHz |      | RDC(m $\Omega$ ) Max | Rated Current (A)Max | IR (M $\Omega$ )Min | Rated Voltage Vdc(V) |
|-------------|--------------------------|------|----------------------|----------------------|---------------------|----------------------|
|             | Min                      | TYP  |                      |                      |                     |                      |
| LCM1211-800 | 80                       | 230  | 2.0                  | 10.0                 | 10                  | 125                  |
| LCM1211-701 | 500                      | 700  | 6.0                  | 8.0                  | 10                  | 125                  |
| LCM1211-801 | 600                      | 800  | 8.0                  | 8.0                  | 10                  | 125                  |
| LCM1211-102 | 750                      | 1000 | 14.0                 | 6.0                  | 10                  | 125                  |
| LCM1211-222 | 2200                     | 2500 | 35.0                 | 1.8                  | 10                  | 125                  |
| LCM1211-272 | 2300                     | 2700 | 50.0                 | 1.5                  | 10                  | 125                  |

## 8.ELECTRICAL CHARACTERISTICS

| PART Number | Z( $\Omega$ ) at 100 MHz |      | RDC(m $\Omega$ ) Max | Rated Current (A)Max | IR (M $\Omega$ )Min | Rated Voltage Vdc(V) |
|-------------|--------------------------|------|----------------------|----------------------|---------------------|----------------------|
|             | Min                      | TYP  |                      |                      |                     |                      |
| LCM1513-301 | 250                      | 300  | 5.0                  | 13                   | 10                  | 80                   |
| LCM1513-551 | 450                      | 550  | 6.0                  | 10                   | 10                  | 80                   |
| LCM1513-701 | 500                      | 700  | 7.0                  | 10                   | 10                  | 80                   |
| LCM1513-102 | 800                      | 1000 | 8.5                  | 10                   | 10                  | 80                   |
| LCM1513-152 | 1100                     | 1500 | 9.0                  | 8.0                  | 10                  | 80                   |

## 9.IMPEDANCE vs. FREQUENCY CHARACTERISTICS



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