

## Current Compensated Ring Core Double Chokes LCM4520-Series

Features:

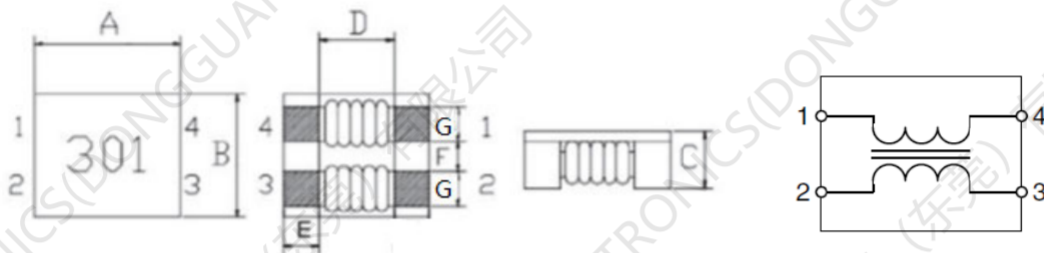
- 1、LCM realizes big size and High current
- 2、High Impedance and Excellent Frequency Characteristic.
- 3、Self Electromagnetic Shielding.
- 4、Low Magnetic Flux Leakage

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.



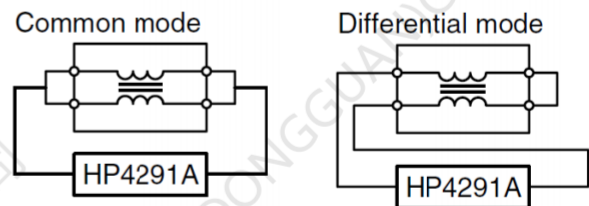
### 1. SHAPES AND DIMENSIONS Unit:mm



| PartNumber | A        | B        | C       | D Typ | E(ref) | F(ref) | G(ref) |
|------------|----------|----------|---------|-------|--------|--------|--------|
| LCM4520    | 4.7±0.5  | 4.5±0.5  | 2.5MAX  | 2.7   | 1.0    | 1.0    | 0.9    |
| 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<br>Number | Z( $\Omega$ )<br>at 100 MHz |      | RDC(m $\Omega$ )<br>max | Rated<br>Current<br>(A)Max | IR<br>(M $\Omega$ )Min | Rated<br>Voltage<br>Vdc(V) |
|----------------|-----------------------------|------|-------------------------|----------------------------|------------------------|----------------------------|
|                | Min                         | TYP  |                         |                            |                        |                            |
| LCM4520-900    | 60                          | 90   | 35                      | 3.2                        | 10                     | 80-125                     |
| LCM4520-151    | 90                          | 150  | 40                      | 3.2                        | 10                     |                            |
| LCM4520-231    | 180                         | 230  | 45                      | 3.0                        | 10                     |                            |
| LCM4520-301    | 200                         | 300  | 45                      | 3.0                        | 10                     |                            |
| LCM4520-381    | 250                         | 380  | 50                      | 2.5                        | 10                     |                            |
| LCM4520-401    | 300                         | 420  | 50                      | 2.5                        | 10                     |                            |
| LCM4520-501    | 350                         | 500  | 55                      | 2.4                        | 10                     |                            |
| LCM4520-701    | 500                         | 700  | 58                      | 2.2                        | 10                     |                            |
| LCM4520-901    | 650                         | 900  | 60                      | 2.1                        | 10                     |                            |
| LCM4520-102    | 800                         | 1000 | 60                      | 2.1                        | 10                     |                            |
| LCM4520-122    | 1000                        | 1200 | 70                      | 2.0                        | 10                     |                            |
| LCM4520-142    | 1200                        | 1400 | 80                      | 1.9                        | 10                     |                            |
| LCM4520-202    | 1800                        | 2000 | 80                      | 1.5                        | 10                     |                            |
| LCM4520-302    | 2500                        | 3000 | 80                      | 1.0                        | 10                     |                            |

### 4. IMPEDANCE vs. FREQUENCY CHARACTERISTICS

