



## LF SERIES

### LINE FILTER

#### Characteristics :

- Rated DC Current: The current when temperature of coil increases up to Max.  $\Delta T=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ )
- Rated voltage: 250VAC.
- Insulation: AC 2000V 1 minute between line & line.
- Insulation Resistance: 100 M $\Omega$  Min when DC 500V between line & line.
- Operating temperature :  $-25^{\circ}\text{C}$  to  $105^{\circ}\text{C}$  .

#### Product Identification :

**LF V - 102 U - 2A**

(1)(2) (3) (4) (5)

(1) Type: Line Filter.

(2) Style: **V**: vertical; **H**: horizontal

**U** or **T** indicate core type; Others: "**V129**";

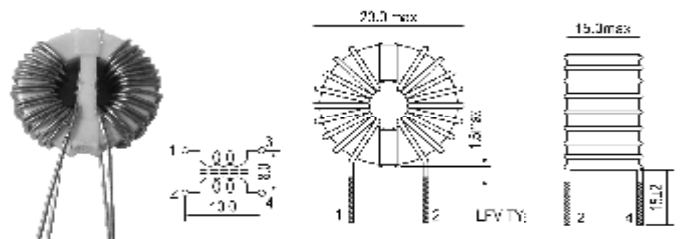
"**LV**"; "**LH**"; "**U9.8**"; "**U10**"; "**U16**"; "**U20**";

(3) Inductance: **102** for 1000uH.

(4) Tolerance: "**U**" means Minimum.

(5) Rate current: Amp.

#### Shape and Dimensions(unit:mm) :



#### Feature :

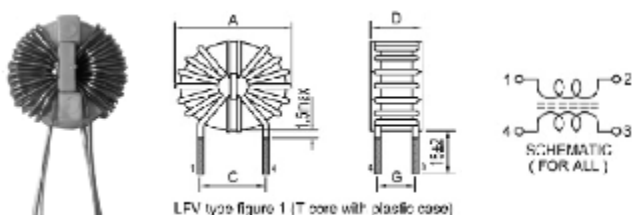
- Line filters suppressing conductive noise ranging from low to high frequencies generated at power supply circuits of various electronic equipment.
- High safety and reliability .
- Many configuration available.
- Available as vertically or horizontally mounted.
- Easy PC board mounting.
- Customer's specifications are welcome.

#### Applications :

- Minimizes noise emissions for conforming to FCC, VCCI, FTZ, CISPR, JTTC and VDE. .
- Applied Equipment: TV, VCR, Switching Power . sources, NC machines, Computer systems, Peripheral units and Measuring instruments

## LFV series

### Shape and Dimensions(unit:mm) :



| 3L P/N  | A max | B max | C      | G      | Figure   |
|---------|-------|-------|--------|--------|----------|
| LFV129  | 17.5  | 14.5  | 5 typ  | 10 typ | Figure 1 |
| LFV     | 23.0  | 15.0  | 13 typ | 12 typ |          |
| LFV2208 | 30.0  | 15.0  | 13 typ | 12 typ |          |
| LFV2513 | 34.0  | 20.0  | 20 typ | 18 typ |          |
| LFV3113 | 40.0  | 20.0  | 20 typ | 18 typ |          |
| LFV3715 | 45.0  | 23.0  | 25 typ | 20 typ |          |

#### Electrical characteristics:

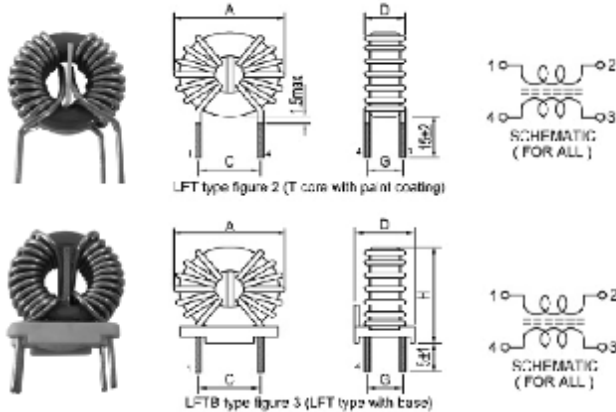
| Part No. |           | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(mΩ)<br>Max. |
|----------|-----------|-------------------|----------------------------|---------------------|
| LFV129-  | 601U - 1A | 0.6               | 1                          | 60                  |
|          | 601U - 2A | 0.6               | 2                          | 50                  |
|          | 601U - 3A | 0.6               | 3                          | 30                  |
|          | 102U - 1A | 1.0               | 1                          | 70                  |
|          | 102U - 2A | 1.0               | 2                          | 50                  |
|          | 102U - 3A | 1.0               | 3                          | 35                  |
|          | 202U - 1A | 2.0               | 1                          | 100                 |
|          | 202U - 2A | 2.0               | 2                          | 70                  |

| Part No. |           | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(mΩ)<br>Max. |
|----------|-----------|-------------------|----------------------------|---------------------|
| LFV129-  | 302U - 2A | 3.0               | 2                          | 85                  |
|          | 502U - 1A | 5.0               | 1                          | 150                 |
| LFV-     | 102U - 2A | 1.0               | 2                          | 80                  |
|          | 202U - 2A | 2.0               | 2                          | 110                 |
|          | 302U - 2A | 3.0               | 2                          | 150                 |
|          | 502U - 1A | 5.0               | 1                          | 200                 |
|          | 802U - 1A | 8.0               | 1                          | 230                 |
|          | 103U - 1A | 10.0              | 1                          | 260                 |



## I LFT/LFTB series

Shape and Dimensions(unit:mm) :



Electrical characteristics:

| 3L P/N   | A max | B max | C      | G      | Figure   |
|----------|-------|-------|--------|--------|----------|
| LFT1206  | 16.0  | 10.0  | 10 typ | 8 typ  | Figure 2 |
| LFT1608  | 20.0  | 12.0  | 13 typ | 10 typ |          |
| LFT2208  | 27.0  | 12.5  | 13 typ | 10 typ |          |
| LFT2513  | 30.0  | 18.0  | 20 typ | 15 typ |          |
| LFT3113  | 37.0  | 19.0  | 20 typ | 15 typ |          |
| LFT3715  | 43.0  | 21.0  | 25 typ | 18 typ | Figure 3 |
| LFTB1206 | 17.5  | 14.5  | 10.0±1 | 8.0±1  |          |
| LFTB1608 | 23.0  | 15.0  | 15.0±1 | 10.0±1 |          |
| LFTB2208 | 30.0  | 16.0  | 20.3±1 | 10.2±1 |          |
| LFTB2513 | 34.0  | 21.0  | 23.0±1 | 15.2±1 |          |
| LFTB3113 | 40.0  | 21.0  | 23.0±1 | 15.2±1 |          |
| IFTB3715 | 45.0  | 24.0  | 30.5±1 | 17.8±1 |          |

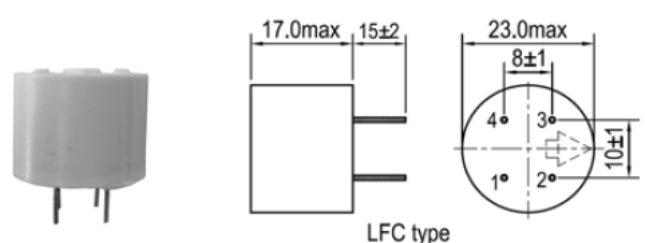
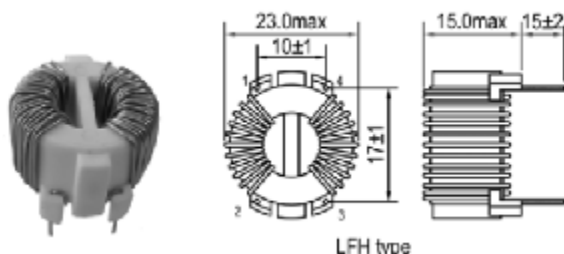
Electrical characteristics:

| Part No. |            | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(mΩ)<br>Max. |
|----------|------------|-------------------|----------------------------|---------------------|
| LFT2208- | 601U - 8A  | 0.60              | 8                          | 9.1                 |
|          | 102U - 6A  | 1.00              | 6                          | 15                  |
|          | 202U - 6A  | 2.0               | 6                          | 25                  |
|          | 302U - 5A  | 3.0               | 5                          | 35                  |
|          | 502U - 4A  | 5.0               | 4                          | 45                  |
|          | 103U - 3A  | 10.0              | 3                          | 85                  |
| LFT2513- | 201U - 15A | 0.2               | 15                         | 5                   |
|          | 601U - 8A  | 0.6               | 8                          | 15                  |
|          | 102U - 5A  | 1.0               | 5                          | 25                  |
|          | 152U - 5A  | 1.5               | 3                          | 30                  |
|          | 302U - 5A  | 3.0               | 5                          | 35                  |
|          | 502U - 3A  | 5.0               | 3                          | 70                  |

| Part No. |            | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(mΩ)<br>Max. |
|----------|------------|-------------------|----------------------------|---------------------|
| LFT3113- | 601U - 15A | 0.6               | 15                         | 7                   |
|          | 102U - 10A | 1.0               | 10                         | 20                  |
|          | 302U - 6A  | 3.0               | 6                          | 90                  |
|          | 502U - 5A  | 5.0               | 5                          | 100                 |
|          | 103U - 3A  | 10                | 3                          | 180                 |
| LFT3715- | 102U - 15A | 1.0               | 15                         | 8                   |
|          | 332U - 15A | 3.3               | 15                         | 10                  |
|          | 502U - 15A | 5.0               | 15                         | 15                  |
|          | 103U - 10A | 10                | 10                         | 28                  |
|          | 153U - 10A | 15                | 10                         | 33                  |

## I LFH/LFC series

Shape and Dimensions(unit:mm) :



Electrical characteristics :

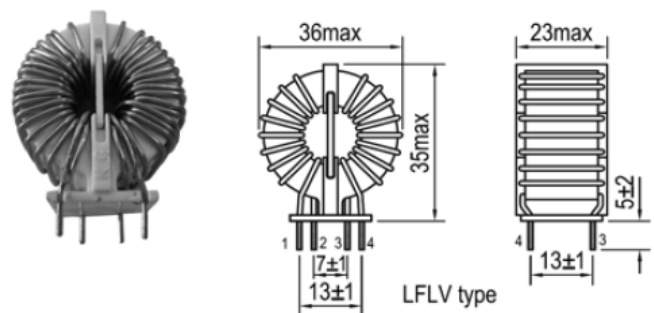
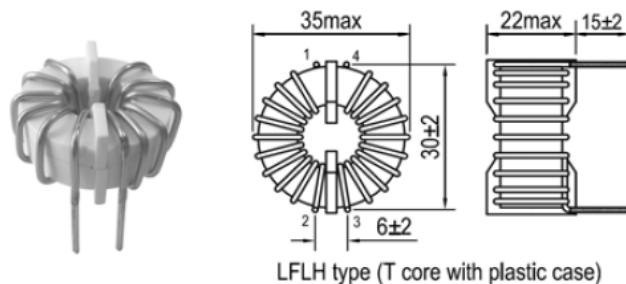
| Part No. |          | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(mΩ)<br>Max. |
|----------|----------|-------------------|----------------------------|---------------------|
| LFH-     | 102U- 2A | 1.0               | 2                          | 80                  |
|          | 202U- 2A | 2.0               | 2                          | 110                 |
|          | 302U- 2A | 3.0               | 2                          | 150                 |
|          | 502U- 1A | 5.0               | 1                          | 200                 |
|          | 802U- 1A | 8.0               | 1                          | 230                 |
|          | 103U- 1A | 10                | 1                          | 260                 |

| Part No. |          | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(mΩ)<br>Max. |
|----------|----------|-------------------|----------------------------|---------------------|
| LFC-     | 301U- 2A | 0.3               | 2                          | 60                  |
|          | 601U- 2A | 0.6               | 2                          | 80                  |
|          | 102U- 2A | 1.0               | 2                          | 100                 |
|          | 152U- 2A | 1.5               | 2                          | 105                 |
|          | 202U- 2A | 2.0               | 2                          | 150                 |
|          | 302U- 2A | 3.0               | 2                          | 180                 |
|          | 552U- 2A | 5.5               | 2                          | 200                 |



## I LFLH/LFLV series

Shape and Dimensions(unit:mm) :



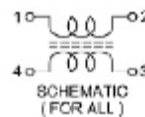
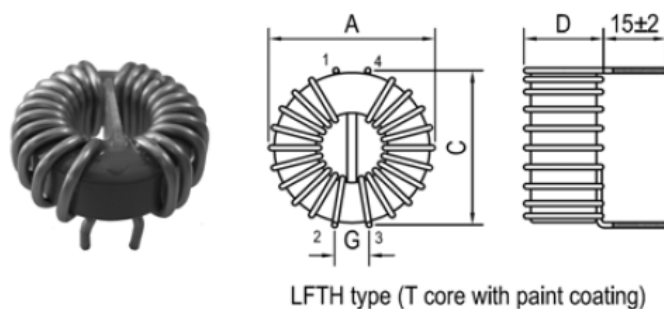
### Electrical characteristics :

| Part No. |           | L (mH)<br>Min. | Rated Current (Amp.) | DCR (mΩ)<br>Max. |
|----------|-----------|----------------|----------------------|------------------|
| LFLH-    | 151U- 12A | 0.15           | 12                   | 8                |
|          | 301U- 9A  | 0.3            | 9                    | 15               |
|          | 601U- 9A  | 0.6            | 9                    | 20               |
|          | 102U- 3A  | 1.0            | 3                    | 50               |
|          | 302U- 3A  | 3.0            | 3                    | 80               |

| Part No. |            | L (mH)<br>Min. | Rated Current (Amp.) | DCR (mΩ)<br>Max. |
|----------|------------|----------------|----------------------|------------------|
| LFLV-    | 152U - 3A  | 1.5            | 3                    | 45               |
|          | 502U - 3A  | 5.0            | 3                    | 70               |
|          | 102U - 5A  | 1.0            | 5                    | 25               |
|          | 302U - 5A  | 3.0            | 5                    | 35               |
|          | 601U - 8A  | 0.6            | 8                    | 15               |
|          | 201U - 15A | 0.2            | 15                   | 5                |

## I LFTH series

Shape and Dimensions(unit:mm) :



| 3L P/N   | A max | B max | C       | G      |
|----------|-------|-------|---------|--------|
| LFTH2208 | 27.0  | 13.0  | 24.0typ | 6.0typ |
| LFTH2508 | 30.0  | 13.0  | 27.0typ | 6.0typ |

### Electrical characteristics:

| Part No. |           | L (mH)<br>Min. | Rated Current (Amp.) | DCR (mΩ)<br>Max. |
|----------|-----------|----------------|----------------------|------------------|
| LFTH2208 | 601U - 8A | 0.6            | 8                    | 9.1              |
|          | 102U - 6A | 1.0            | 6                    | 15               |
|          | 202U - 6A | 2.0            | 6                    | 25               |
|          | 302U - 5A | 3.0            | 5                    | 35               |
|          | 502U - 4A | 5.0            | 4                    | 45               |
|          | 103U - 3A | 10             | 3                    | 85               |

| Part No. |           | L (mH)<br>Min. | Rated Current (Amp.) | DCR (mΩ)<br>Max. |
|----------|-----------|----------------|----------------------|------------------|
| LFTH2508 | 151U- 12A | 0.15           | 12                   | 8                |
|          | 301U- 9A  | 0.3            | 9                    | 15               |
|          | 601U- 9A  | 0.6            | 9                    | 20               |
|          | 102U- 3A  | 1.0            | 3                    | 50               |
|          | 302U- 3A  | 3.0            | 3                    | 80               |

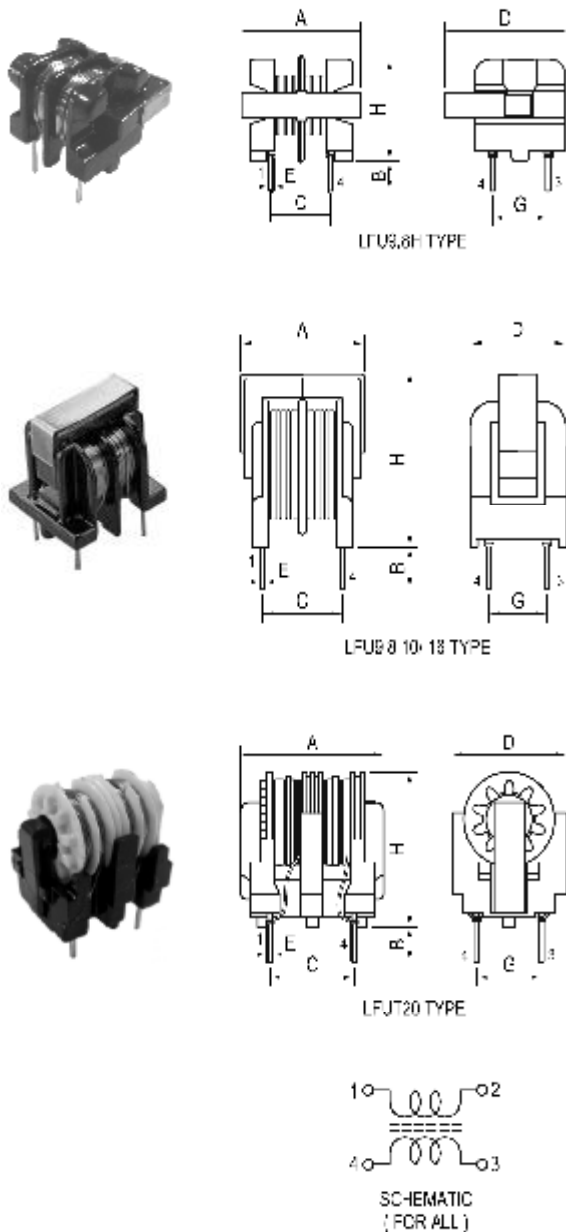
\* Due to the limited space, the catalogue shows the typical specifications only. For more specific details ( characteristics graph, reliability, and others), kindly invite you to access 3L official website [www.3lcoil.com](http://www.3lcoil.com) for better known.



## I LFU9.8/LFU10/LFU16/LFUT20 series

Shape and Dimensions(unit:mm) :

Electrical characteristics :



| 3L P/N  | A max | B ±1.0 | C ±0.5 | D max | E ±0.05 | G ±0.5 | H max |
|---------|-------|--------|--------|-------|---------|--------|-------|
| LFU9.8  | 17.0  | 4.0    | 8.0    | 12.0  | 0.60    | 7.0    | 17.0  |
| LFU9.8H | 17.0  | 4.0    | 8.0    | 16.0  | 0.60    | 7.0    | 13.0  |
| LFU10   | 19.0  | 4.0    | 13.0   | 17.0  | 0.70    | 10.0   | 22.0  |
| LFU16   | 23.0  | 4.0    | 13.0   | 19.5  | 0.70    | 10.0   | 27.5  |
| LFUT20  | 22.0  | 4.0    | 13.0   | 17.5  | 0.80    | 10.0   | 23.5  |

| Part No.          |            | L<br>(mH)<br>Min. | Rated<br>Current<br>(Amp.) | DCR<br>(Ω)<br>Max. |
|-------------------|------------|-------------------|----------------------------|--------------------|
| LFU9.8<br>LFU9.8H | 103U- 0.1A | 10                | 0.1                        | 8.0                |
|                   | 802U- 0.2A | 8.0               | 0.2                        | 6.0                |
|                   | 502U- 0.2A | 5.0               | 0.2                        | 4.5                |
|                   | 502U- 0.3A | 5.0               | 0.3                        | 3.5                |
|                   | 202U- 0.5A | 2.0               | 0.5                        | 1.0                |
|                   | 501U- 1A   | 0.5               | 1.0                        | 0.3                |
| LFU10-            | 103U- 0.3A | 10.0              | 0.3                        | 3.0                |
|                   | 502U- 0.3A | 5.0               | 0.3                        | 2.0                |
|                   | 502U- 0.5A | 5.0               | 0.5                        | 1.5                |
|                   | 402U- 0.7A | 4.0               | 0.7                        | 1.0                |
|                   | 302U- 1A   | 3.0               | 1.0                        | 0.5                |
|                   | 202U- 1A   | 2.0               | 1.0                        | 0.5                |
|                   | 102U- 1A   | 1.0               | 1.0                        | 0.4                |
|                   | 102U- 1.3A | 1.0               | 1.3                        | 0.3                |
|                   | 102U- 1.5A | 1.0               | 1.5                        | 0.2                |
|                   | 601U- 2A   | 0.6               | 2.0                        | 0.2                |
| LFU16-            | 303U- 0.4A | 30                | 0.4                        | 2.8                |
|                   | 203U- 0.4A | 20                | 0.4                        | 2.2                |
|                   | 203U- 0.5A | 20                | 0.5                        | 1.6                |
|                   | 103U- 0.6A | 10                | 0.6                        | 1.2                |
|                   | 802U- 0.8A | 8.0               | 0.8                        | 0.8                |
|                   | 602U- 0.8A | 6.0               | 0.8                        | 0.7                |
|                   | 602U- 1A   | 6.0               | 1.0                        | 0.5                |
|                   | 402U- 1A   | 4.0               | 1.0                        | 0.4                |
|                   | 352U- 1.2A | 3.5               | 1.2                        | 0.3                |
|                   | 252U- 1.2A | 2.5               | 1.2                        | 0.25               |
|                   | 152U- 1.5A | 1.5               | 1.5                        | 0.15               |
| LFUT20-           | 333U- 0.3A | 33                | 0.3                        | 2.50               |
|                   | 223U- 0.4A | 22                | 0.4                        | 1.70               |
|                   | 153U- 0.5A | 15                | 0.5                        | 1.20               |
|                   | 103U- 0.7A | 10                | 0.7                        | 0.75               |
|                   | 682U- 0.8A | 6.8               | 0.8                        | 0.53               |
|                   | 472U- 1A   | 4.7               | 1.0                        | 0.38               |
|                   | 332U- 1A   | 3.3               | 1.0                        | 0.31               |
|                   | 222U- 1.2A | 2.2               | 1.2                        | 0.18               |
|                   | 152U- 1.5A | 1.5               | 1.5                        | 0.14               |
|                   | 751U- 1.8A | 0.75              | 1.8                        | 0.12               |

\* Due to the limited space, the catalogue shows the typical specifications only. For more specific details ( characteristics graph, reliability, and others), kindly invite you to access 3L official website [www.3lcoil.com](http://www.3lcoil.com) for better known.