

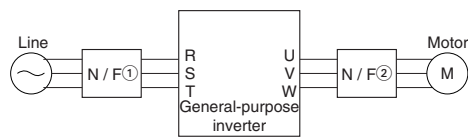
# LF Series

## Inverter-Use Type



| Model     | Rated voltage<br>AC/DC (V) | Rated current<br>AC/DC (A) | Withstanding<br>voltage 1 min.,<br>line to ground<br>AC (V) | Insulation resistance<br>500VDC 1 min.,<br>line to ground<br>(MΩ) min. | Leakage current<br>250V/60Hz,<br>(mA) max. | Operating<br>temperature<br>range<br>(°C) | Certified<br>standard | Installation<br>position |
|-----------|----------------------------|----------------------------|-------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------|-----------------------|--------------------------|
| LF-305    | 250                        | 5                          | 1500                                                        | 300                                                                    | 1                                          | -20 to +55                                |                       | ① (input side)           |
| LF-310    | 250                        | 10                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +55                                | UL                    | ① (input side)           |
| LF-315    | 250                        | 15                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +55                                |                       | ① (input side)           |
| LF-320    | 250                        | 20                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +55                                |                       | ① (input side)           |
| LF-330    | 250                        | 30                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +55                                | UL                    | ① (input side)           |
| LF-340    | 250                        | 40                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +45                                | UL                    | ① (input side)           |
| LF-350    | 250                        | 50                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +45                                | UL                    | ① (input side)           |
| LF-360    | 250                        | 60                         | 1500                                                        | 300                                                                    | 1                                          | -20 to +45                                |                       | ① (input side)           |
| LF-305G   | 250                        | 5                          | 1500                                                        | 300                                                                    | 1                                          | -25 to +55                                |                       | ① (input side)           |
| LF-310G   | 250                        | 10                         | 1500                                                        | 300                                                                    | 1                                          | -25 to +55                                |                       | ① (input side)           |
| LF-320G   | 250                        | 20                         | 1500                                                        | 300                                                                    | 1                                          | -25 to +55                                |                       | ① (input side)           |
| LF-315K   | 250                        | 15                         | 2000                                                        | 300                                                                    | 5                                          | -25 to +55                                |                       | ① (input side)           |
| LF-325K   | 250                        | 25                         | 2000                                                        | 300                                                                    | 5                                          | -25 to +55                                |                       | ① (input side)           |
| LF-335K   | 250                        | 35                         | 2000                                                        | 300                                                                    | 5                                          | -25 to +55                                |                       | ① (input side)           |
| LF-380K   | 250                        | 80                         | 2000                                                        | 300                                                                    | 5                                          | -25 to +55                                |                       | ① (input side)           |
| LF-314K4  | 506                        | 14                         | 2500                                                        | 300                                                                    | 10 (500V, 60Hz)                            | -25 to +55                                |                       | ① (input side)           |
| LF-330K4  | 506                        | 30                         | 2500                                                        | 300                                                                    | 10 (500V, 60Hz)                            | -25 to +55                                |                       | ① (input side)           |
| LF-355K4  | 506                        | 55                         | 2500                                                        | 300                                                                    | 10 (500V, 60Hz)                            | -25 to +55                                |                       | ① (input side)           |
| LF-380K4  | 506                        | 80                         | 2500                                                        | 300                                                                    | 10 (500V, 60Hz)                            | -25 to +55                                |                       | ① (input side)           |
| LF-310KA  | 250                        | 10                         | 2000                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-320KA  | 250                        | 20                         | 2000                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-350KA  | 250                        | 50                         | 2000                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-310KB  | 450                        | 10                         | 2500                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-320KB  | 450                        | 20                         | 2500                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-335KB  | 450                        | 35                         | 2500                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-345KB  | 450                        | 45                         | 2500                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-375KB  | 450                        | 75                         | 2500                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |
| LF-3110KB | 450                        | 110                        | 2500                                                        | 300                                                                    | —                                          | -25 to +55                                |                       | ② (output side)          |

### Installation Diagram

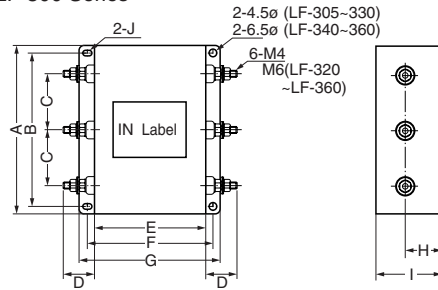


Only LF-KA and KB can be used in N/F②.

- N/F ① LF-K Series (conforms to CISPR Pub 14)  
LF Series (conforms to FCC P15-J and JTTC)  
LF-G Series (conforms to FCC P15-J and JTTC)
- N/F ② LF-KA Series (200V line)  
LF-KB Series (400V line)

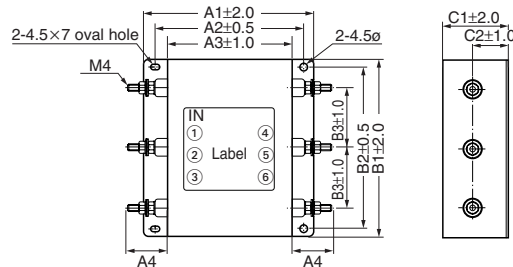
# Shape and Dimensions

## ●LF-300 Series



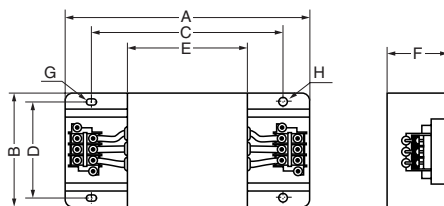
| Model  | A   | B   | C  | D  | E   | F   | G   | H  | I   | J     |
|--------|-----|-----|----|----|-----|-----|-----|----|-----|-------|
| LF-305 | 120 | 110 | 40 | 25 | 80  | 95  | 110 | 25 | 45  | 4.5×7 |
| LF-310 | 180 | 170 | 60 | 25 | 120 | 135 | 150 | 35 | 65  | 4.5×7 |
| LF-315 | 180 | 170 | 60 | 25 | 120 | 135 | 150 | 35 | 65  | 4.5×7 |
| LF-320 | 180 | 170 | 60 | 29 | 120 | 135 | 150 | 35 | 65  | 4.5×7 |
| LF-330 | 180 | 170 | 60 | 29 | 120 | 135 | 150 | 35 | 65  | 4.5×7 |
| LF-340 | 180 | 160 | 50 | 30 | 200 | 220 | 240 | 40 | 80  | 6.5×9 |
| LF-350 | 180 | 160 | 50 | 30 | 200 | 220 | 240 | 40 | 80  | 6.5×9 |
| LF-360 | 200 | 180 | 60 | 30 | 300 | 320 | 340 | 40 | 100 | 6.5×9 |

## ●LF-G Series



| Model   | A1  | A2  | A3  | A4 | B1  | B2  | B3 | C1 | C2 |
|---------|-----|-----|-----|----|-----|-----|----|----|----|
| LF-305G | 110 | 95  | 80  | 25 | 120 | 110 | 40 | 45 | 25 |
| LF-310G | 150 | 135 | 120 | 25 | 120 | 110 | 40 | 65 | 35 |
| LF-320G | 150 | 135 | 120 | 25 | 120 | 110 | 40 | 65 | 35 |

## ●LF-K Series

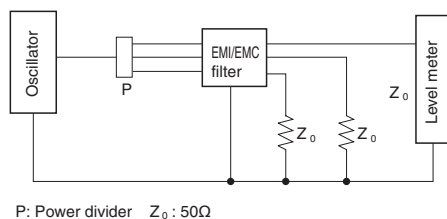


|           | Model    | Terminal board | A   | B   | C   | D   | E   | F   | G     | H   |
|-----------|----------|----------------|-----|-----|-----|-----|-----|-----|-------|-----|
| 200V line | LF-315K  | TE-K5.5 M4     | 260 | 180 | 180 | 160 | 120 | 65  | 7×4.5 | 4.5 |
|           | LF-325K  | TE-K22 M6      | 340 | 180 | 260 | 160 | 200 | 80  | 9×6.5 | 6.5 |
|           | LF-335K  | TE-K22 M6      | 440 | 200 | 360 | 180 | 300 | 100 | 9×6.5 | 6.5 |
|           | LF-380K  | TE-K22 M6      | 670 | 400 | 560 | 380 | 500 | 170 | 9×6.5 | 6.5 |
| 400V line | LF-314K4 | TE-K5.5 M4     | 260 | 180 | 180 | 160 | 120 | 65  | 7×4.5 | 4.5 |
|           | LF-330K4 | TE-K22 M6      | 440 | 200 | 360 | 180 | 300 | 100 | 9×6.5 | 6.5 |
|           | LF-355K4 | TE-K22 M6      | 540 | 300 | 470 | 270 | 400 | 130 | 9×6.5 | 6.5 |
|           | LF-380K4 | TE-K22 M6      | 672 | 400 | 560 | 380 | 500 | 170 | 9×6.5 | 6.5 |

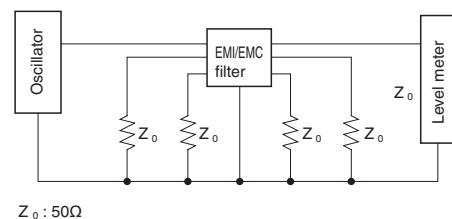
|           | Model     | Terminal board | A   | B   | C   | D   | E   | F   | G     | H   |
|-----------|-----------|----------------|-----|-----|-----|-----|-----|-----|-------|-----|
| 200V line | LF-310KA  | TE-K5.5 M4     | 140 | 100 | 100 | 90  | 70  | 45  | 7×4.5 | 4.5 |
|           | LF-320KA  | TE-K5.5 M4     | 140 | 100 | 100 | 90  | 70  | 45  | 7×4.5 | 4.5 |
|           | LF-350KA  | TE-K22 M6      | 260 | 180 | 180 | 160 | 120 | 65  | 7×4.5 | 4.5 |
|           | LF-310KB  | TE-K5.5 M4     | 140 | 100 | 100 | 90  | 70  | 45  | 7×4.5 | 4.5 |
| 400V line | LF-320KB  | TE-K5.5 M4     | 140 | 100 | 100 | 90  | 70  | 45  | 7×4.5 | 4.5 |
|           | LF-335KB  | TE-K5.5 M4     | 140 | 100 | 100 | 90  | 70  | 45  | 7×4.5 | 4.5 |
|           | LF-345KB  | TE-K22 M6      | 260 | 180 | 180 | 160 | 120 | 65  | 7×4.5 | 4.5 |
|           | LF-375KB  | TE-K22 M6      | 540 | 320 | 480 | 300 | 340 | 240 | 9×6.5 | 6.5 |
|           | LF-3110KB | TE-K60 M8      | 540 | 320 | 480 | 300 | 340 | 240 | 9×6.5 | 6.5 |

# Measuring Circuit

## ●Common mode

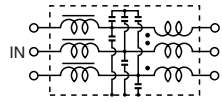


## ●Normal mode

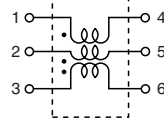


## Circuit Diagram

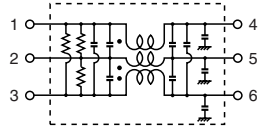
## ●LF-300 Series



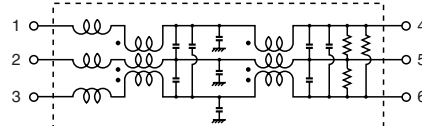
## ●KA, KB Series



## ●LF-G Series



## ●K, K4 Series



## Attenuation (Static Characteristics)

