

FLLE2 – P, Single Phase

General Purpose Chassis Mount Filters

Overview

The FLLE2-P is a general purpose, single phase filter series with medium attenuation. They have a chassis mount for fast mounting and a metal case filled with self-extinguishing resin. Fast-on or screw terminals, and options with flexible wire connections are available. In addition, medical versions are available without Y-capacitors for no leakage current.

Applications

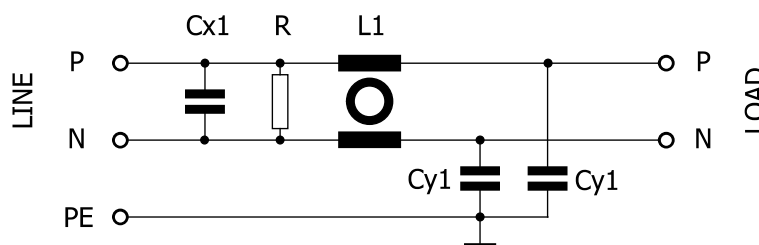
Typical applications include industrial power supplies, office and business equipment, tele- and datacom equipment, household and consumer goods, and medical equipment.



Technical Specifications

| Item | Parameters/Characteristics |
|-------------------|--------------------------------------|
| Rated Voltage | 300 VAC/VDC |
| Rated Frequency | 50 – 60 Hz |
| Rated Current | 1 – 32 A |
| Rated Temperature | 40°C |
| Temperature Range | -25°C to 100°C |
| Climate Category | 25/100/21 |
| Voltage Test | P → N 1,300 VDC P/N → E 2,250 VDC |

Typical Electrical Schematic



Technical Specifications cont.

| Part Number | Rated Current at 40°C (A) | Leakage Current* (mA) | C _x 1 (μF) | R (MΩ) | L1 (mH) | C _y 1 (nF) |
|------------------|---------------------------|-----------------------|-----------------------|--------|---------|-----------------------|
| FLLE2001AP(1)(2) | 1 | 0.37 | 0.1 | 1 | 12 | 4.7 |
| FLLE2003AP(1)(2) | 3 | 0.37 | 0.1 | 1 | 2.5 | 4.7 |
| FLLE2006AP(1)(2) | 6 | 0.37 | 0.1 | 1 | 1 | 4.7 |
| FLLE2010AP(1)(2) | 10 | 0.37 | 0.1 | 1 | 1 | 4.7 |
| FLLE2013AP(1)(2) | 13 | 0.37 | 0.1 | 1 | 0.8 | 4.7 |
| FLLE2016AP(1)(2) | 16 | 0.37 | 0.1 | 1 | 0.8 | 4.7 |
| FLLE2020AP(1)(2) | 20 | 0.37 | 0.1 | 1 | 0.8 | 4.7 |
| FLLE2025AP(1)(2) | 25 | 0.37 | 0.1 | 1 | 0.8 | 4.7 |
| FLLE2032AP(1)(2) | 32 | 0.79 | 0.47 | 0.33 | 0.8 | 10 |

(1) D = Standard, M = Medical

(2) B = Fast-on (1-16A), I = Threaded (20-32A), D = Wire (1-32A)

* Leakage current at 250 VAC/50 Hz according to IEC60939-3. Medical version without C_y-capacitors, no leakage current.

Approvals

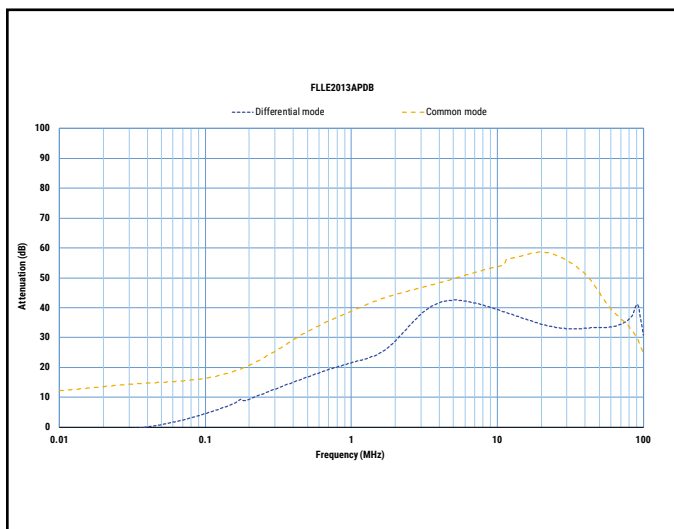
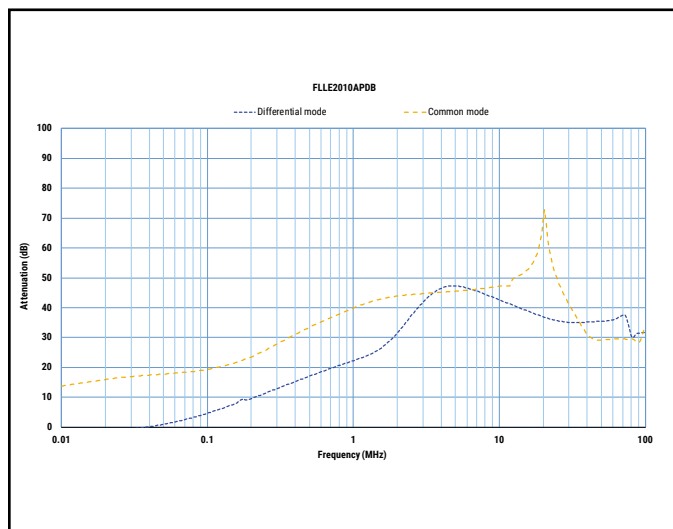
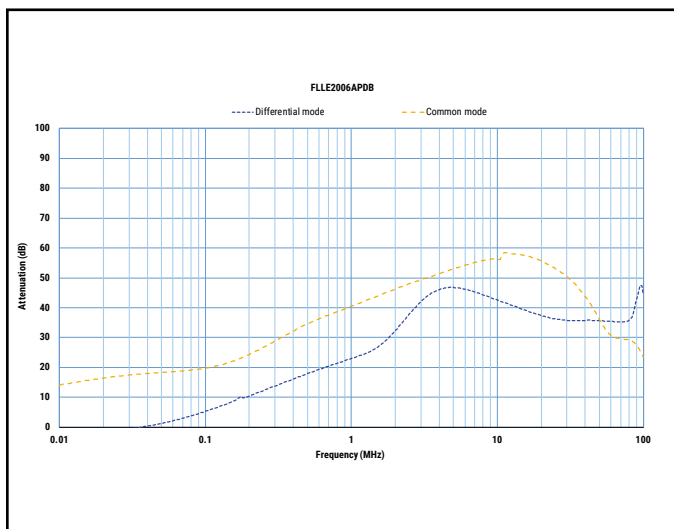
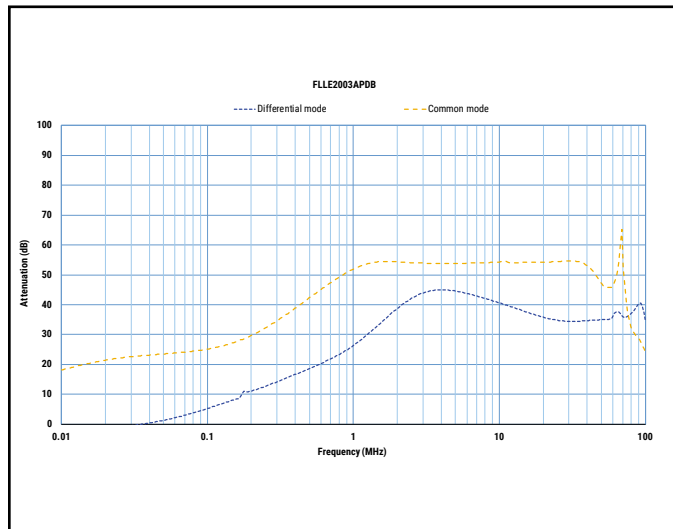
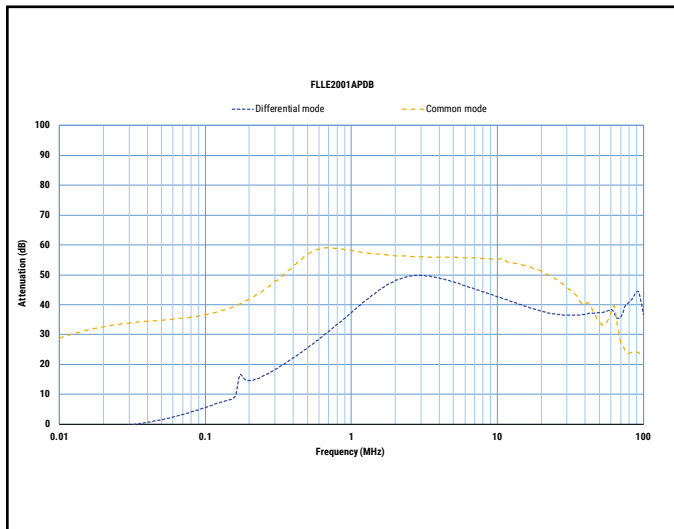
| Standard | Certification Body | File Number |
|------------------------|--------------------|-------------|
| IEC/EN 60939-3 | UL-Demko | E490803 |
| ANSI/UL 60939-3-2017 | UL | E490803 |
| CAN/CSA C22.2 No. 8-13 | UL | E490803 |

Environmental Compliance

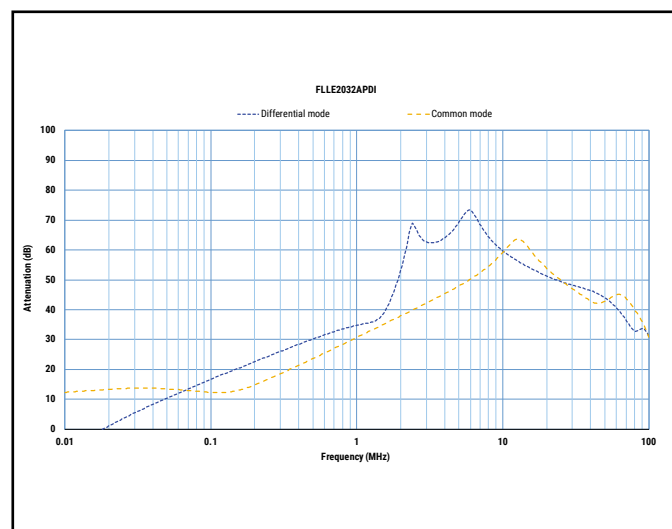
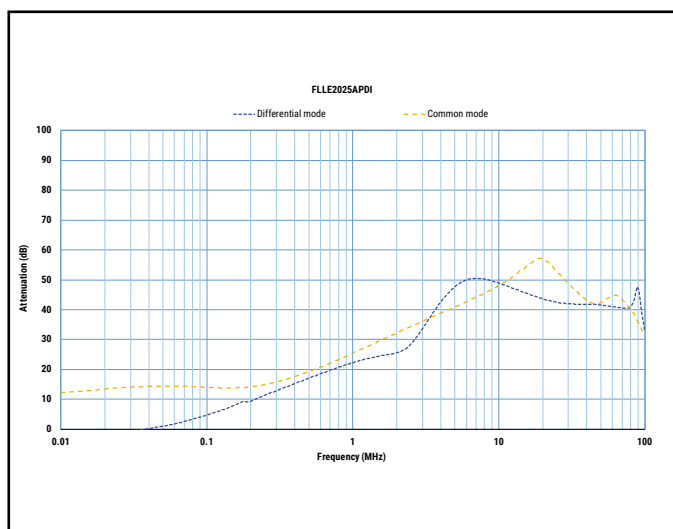
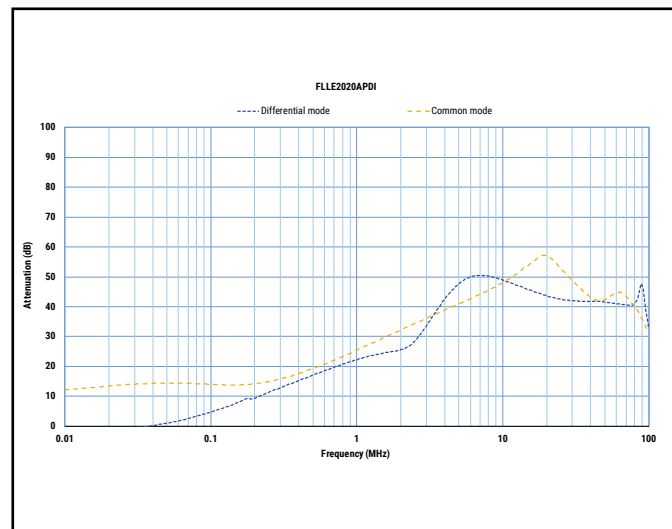
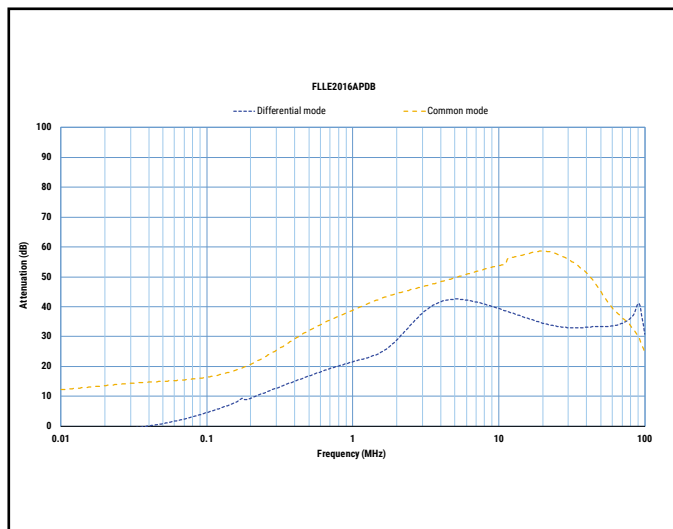
KEMET EMI filters are RoHS Compliant.



Typical Insertion Loss

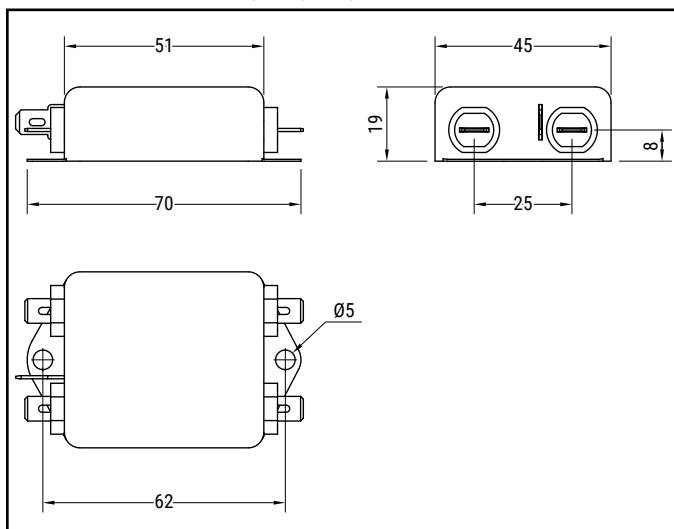


Typical Insertion Loss cont.

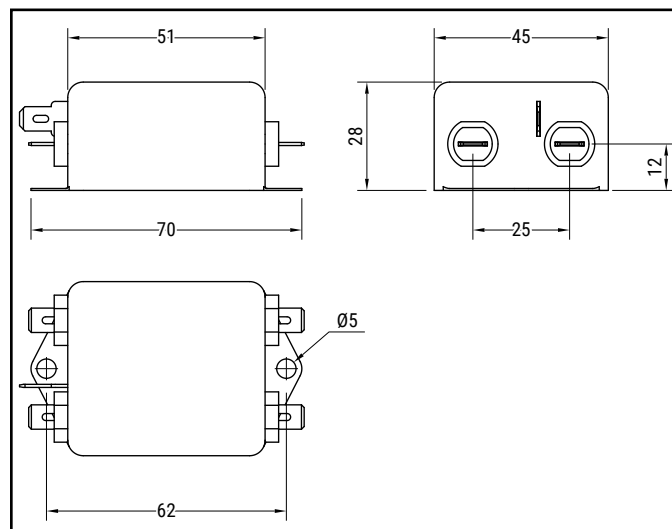


Mechanical Dimensions – Millimeters

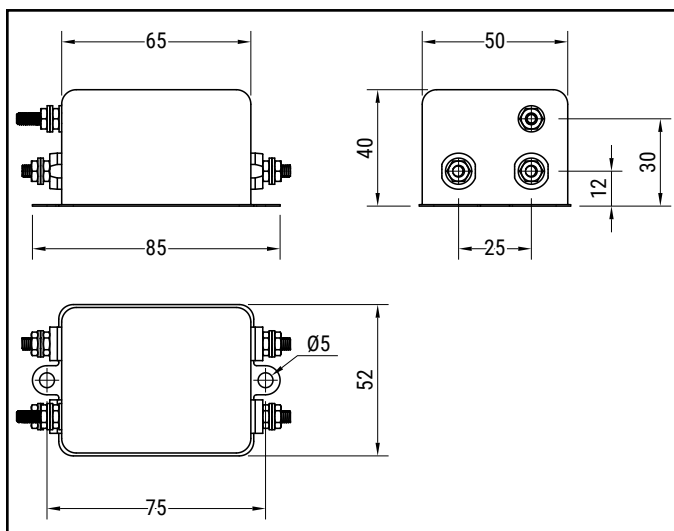
1A, 3A, 6A, and 10A



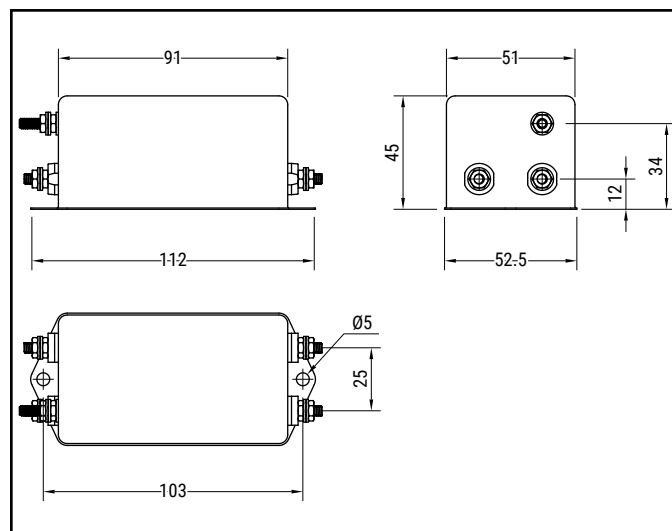
13A and 16A



20A and 25A



32A



| Part Number | L (mm) | W (mm) | H (mm) | Weight (g) | Fast-on Terminal | Threaded Terminal | Flexible Wire (mm ²) |
|------------------|-----------|-----------|-----------|---------------|---------------------|----------------------|-------------------------------------|
| FLLE2001AP(1)(2) | 51 | 45 | 19 | 85 | 6.3 x 0.8 | | 0.75 |
| FLLE2003AP(1)(2) | 51 | 45 | 19 | 85 | 6.3 x 0.8 | | 0.75 |
| FLLE2006AP(1)(2) | 51 | 45 | 19 | 95 | 6.3 x 0.8 | | 1.5 |
| FLLE2010AP(1)(2) | 51 | 45 | 19 | 100 | 6.3 x 0.8 | | 1.5 |
| FLLE2013AP(1)(2) | 51 | 45 | 28 | 140 | 6.3 x 0.8 | | 1.5 |
| FLLE2016AP(1)(2) | 51 | 45 | 28 | 140 | 6.3 x 0.8 | | 2.5 |
| FLLE2020AP(1)(2) | 65 | 50 | 40 | 290 | | M4 x 0.7 | 2.5 |
| FLLE2025AP(1)(2) | 65 | 50 | 40 | 290 | | M4 x 0.7 | 2.5 |
| FLLE2032AP(1)(2) | 91 | 51 | 45 | 415 | | M4 x 0.7 | 4 |

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[FLLE2010APDB](#) [FLLE2013APDB](#) [FLLE2006APDB](#)