

## Overview

FAH PCB mount Suppression Filters are compact and feature high performance and low leakage. These EMI filters include low-cost encapsulation. The filters are designed with multiple combinations of enclosure sizes and current ratings, offering the utmost in flexibility and economy.

## Applications

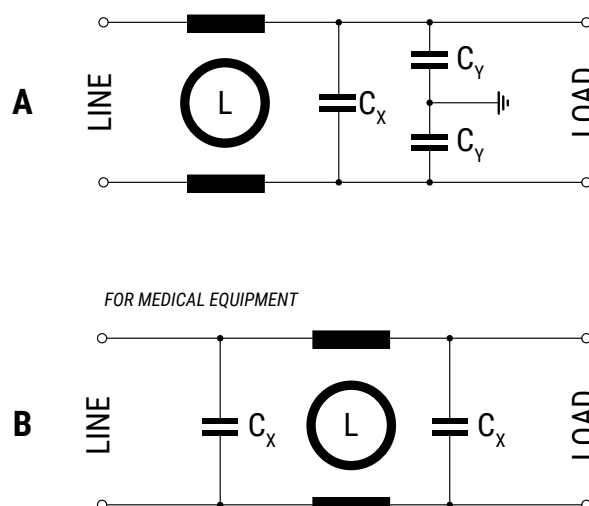
Typical applications include industrial measuring equipment, consumer electronics, low power SMPS, and other business and medical equipment.



## Technical Specifications

| Item              | Parameters/Characteristics         |
|-------------------|------------------------------------|
| Rated Voltage     | 250 VAC                            |
| Rated Frequency   | 50 – 60 Hz                         |
| Rated Current     | 0.5 – 6.5 A                        |
| Rated Temperature | 40°C                               |
| Temperature Range | -25°C to +85°C                     |
| Climate Category  | 25/085/21                          |
| Voltage Test      | P → P 1,700 VDC<br>P → E 3,000 VDC |

### Typical Electrical Schematic



## Technical Specifications cont.

| Part Number | $I_R$ (A) | L (mH) | $C_X$ ( $\mu$ F) | $C_Y$ (nF) | $I_L$ (mA) | Circuit Diagram (Above) |
|-------------|-----------|--------|------------------|------------|------------|-------------------------|
| FAHAV3100ZA | 0.5       | 2 x 40 | 0.1              | 2.5        | 0.26       | A                       |
| FAHAV3100ZB | 1         | 2 x 10 | 0.1              | 2.5        | 0.26       | A                       |
| FAHAV3100ZC | 1.6       | 2 x 6  | 0.1              | 2.5        | 0.26       | A                       |
| FAHAV3100ZD | 2.5       | 2 x 2  | 0.1              | 2.5        | 0.26       | A                       |
| FAHAV3100ZE | 4         | 2 x 1  | 0.1              | 2.5        | 0.26       | A                       |
| FAHAV3100ZF | 6.5       | 2 x 1  | 0.1              | 2.5        | 0.26       | A                       |
| FAHAV3200ZA | 0.5       | 2 x 40 | 0.1              | -          | -          | B                       |
| FAHAV3200ZB | 1         | 2 x 10 | 0.1              | -          | -          | B                       |
| FAHAV3200ZC | 1.6       | 2 x 6  | 0.1              | -          | -          | B                       |
| FAHAV3200ZD | 2.5       | 2 x 2  | 0.1              | -          | -          | B                       |
| FAHAV3200ZE | 4         | 2 x 1  | 0.1              | -          | -          | B                       |
| FAHAV3200ZF | 6.5       | 2 x 1  | 0.1              | -          | -          | B                       |

## Approvals

The FAH is designed according to IEC/EN/UL 60939 and UL 1283.

| Standard        | Certification Body |
|-----------------|--------------------|
| IEC/EN 60939-2  | VDE                |
| CSA C22.2 No. 8 | CSA                |

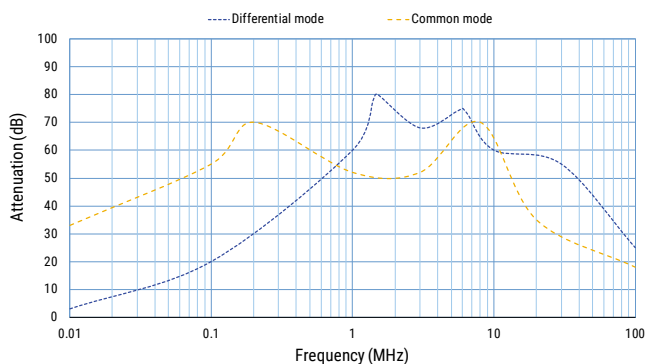
## Environmental Compliance

KEMET EMI filters are RoHS Compliant.

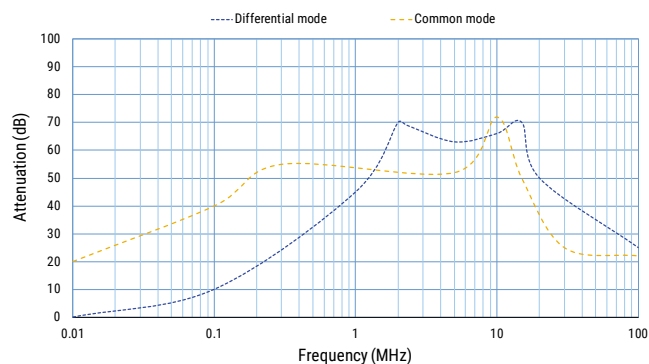


## Typical Insertion Loss

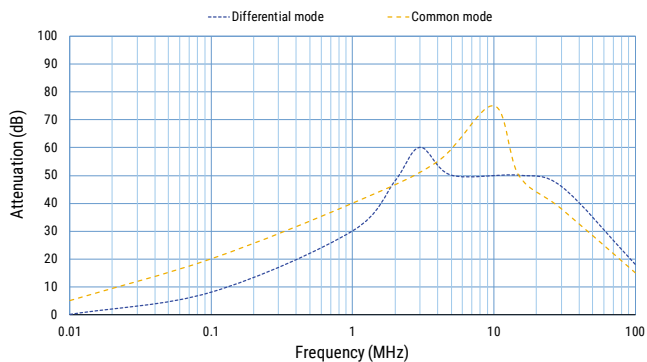
0.5 A



1 and 1.6 A

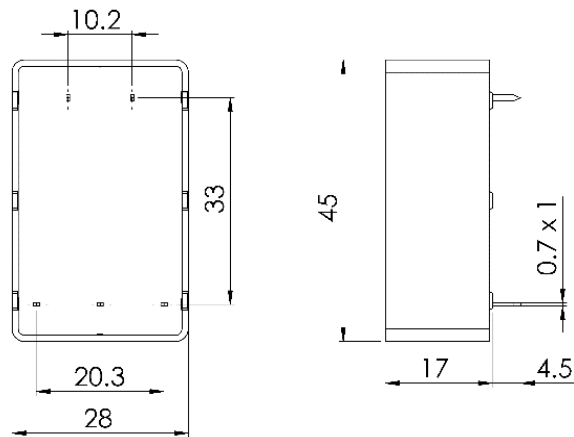


2.5, 4, and 6 A



## Mechanical Dimensions – Millimeters

### FAHAV



- Self-extinguishing plastic case
- Sealed with self-extinguishing resin
- Pin connection for PCB 0.7 x 1 x 4.5 mm (FAHAV)

Tolerances, if not stated, according to ISO 2768-c.

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