

Overview

FLH is a range of compact, PCB mountable EMI filters with plastic enclosure and are sealed with self-extinguishing resin. Current ratings from 1 to 6 A, with high performance to size ratio.

Applications

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

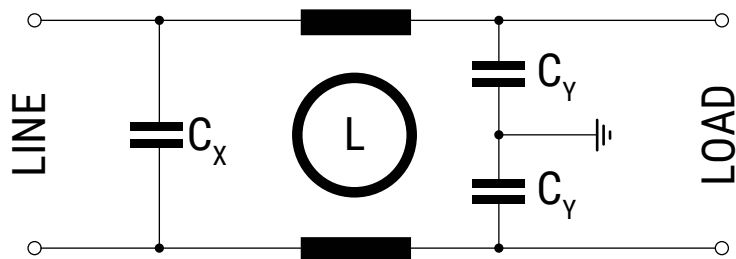


Technical Specifications

| Item | Parameters/ Characteristics |
|-------------------|------------------------------------|
| Rated Voltage | 250 VAC |
| Rated Frequency | 50 – 60 Hz |
| Rated Current | 1 – 6 A |
| Rated Temperature | 40°C |
| Temperature Range | -25 °C to 85 °C |
| Climate Category | 25/085/21 |
| Voltage Test | P → P 1,700 VDC P → E 3,000 VDC |

Technical Specifications cont.

Typical Electrical Schematic



| Part Number | Rated Current at 40°C (A) | C _x (μF) | L (mH) | C _y (nF) | Leakage Current |
|--------------|---------------------------|---------------------|--------|---------------------|-----------------|
| FLH01A0203AK | 1 | 0.033 | 2x10 | 2x2.5 | 0.2 |
| FLH01A0603AK | 1 | 0.033 | 2x10 | - | - |
| FLH03A0303AK | 3 | 0.033 | 2x2.5 | 2x2.5 | 0.2 |
| FLH03A0703AK | 3 | 0.033 | 2x2.5 | - | - |
| FLH06A0403AK | 6 | 0.033 | 2x1 | 2x2.5 | 0.2 |
| FLH06A0803AK | 6 | 0.033 | 2x1 | - | - |

* 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 60939-2 | VDE | 40031548 |

Environmental Compliance

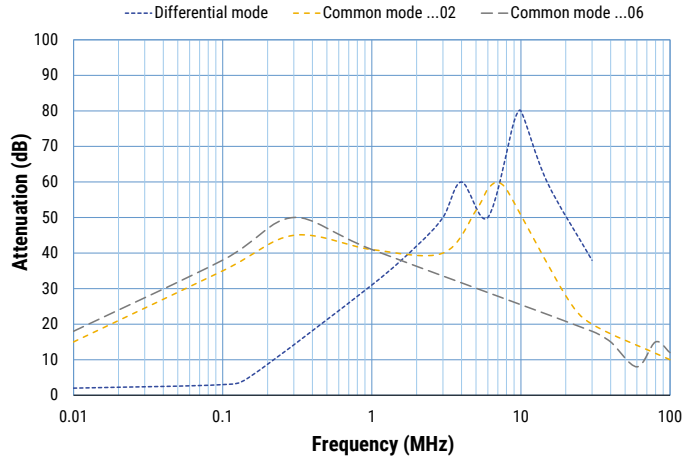
KEMET EMI filters are RoHS Compliant.



Typical Insertion Graphs

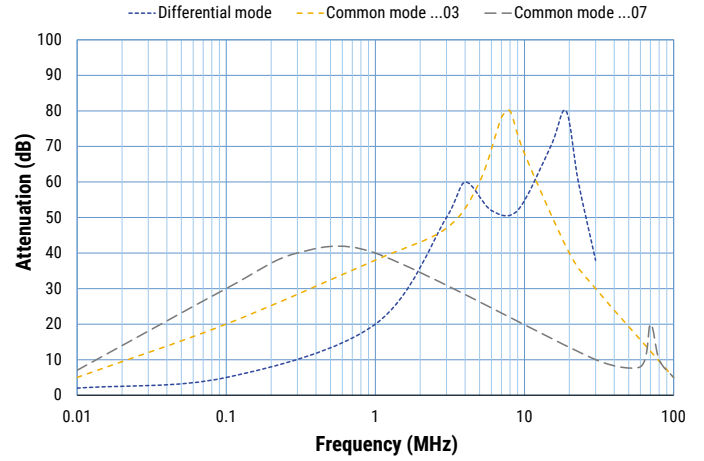
1 A

FLH01A ...



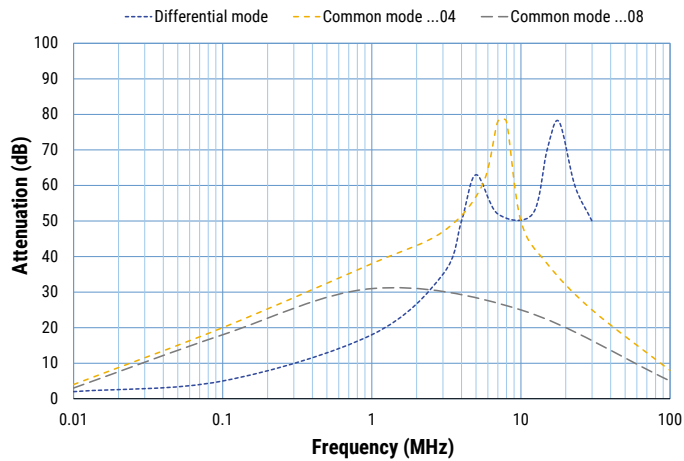
3 A

FLH03A ...

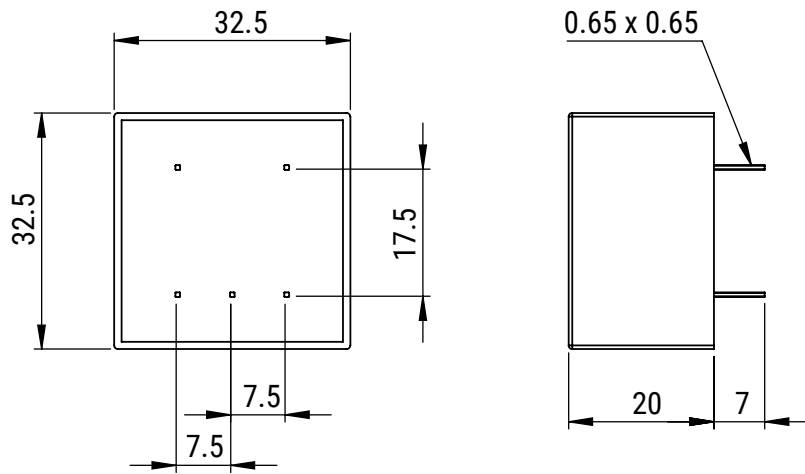


6 A

FLH06A ...



Mechanical Dimensions – Millimeters



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