

## Single phase - general purpose

Comprehensive family of single and multi-stage chassis mount filters. Throughout the power range, a high level of performance is provided within various sizes and styles of metal enclosure and termination options.

Designed to provide economic solutions to a multitude of general purpose filtering requirements; industrial power equipment, office, business and medical equipments.

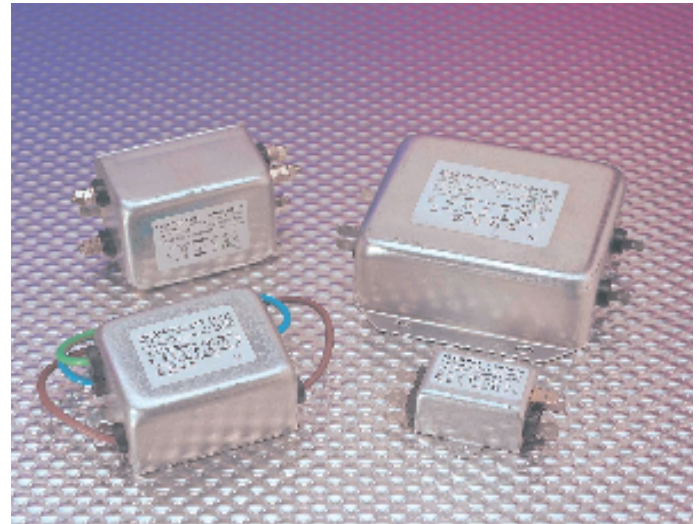
The two stage FAS series is specifically designed to suppress RFI generated by switch mode power supply applications.

- Current ratings from 0.5A to 40A
- High symmetric and asymmetric attenuation
- Earth line choke and medical versions available
- Custom designs to client specifications

## Mechanical Specifications

Manufacture: metal case and cover, internal components sealed with self-extinguishing resin.

Connections: faston 6.3 x 0.8mm ( $\leq 16A$ ), flexible leads, screws M4 ( $\leq 40A$ ) ground terminal connected to case.



## Electrical Specifications

Rated voltage ( $V_R$ ): max 250V, 50/60Hz

Rated current ( $I_R$ ): referred to room temperature = 40°C

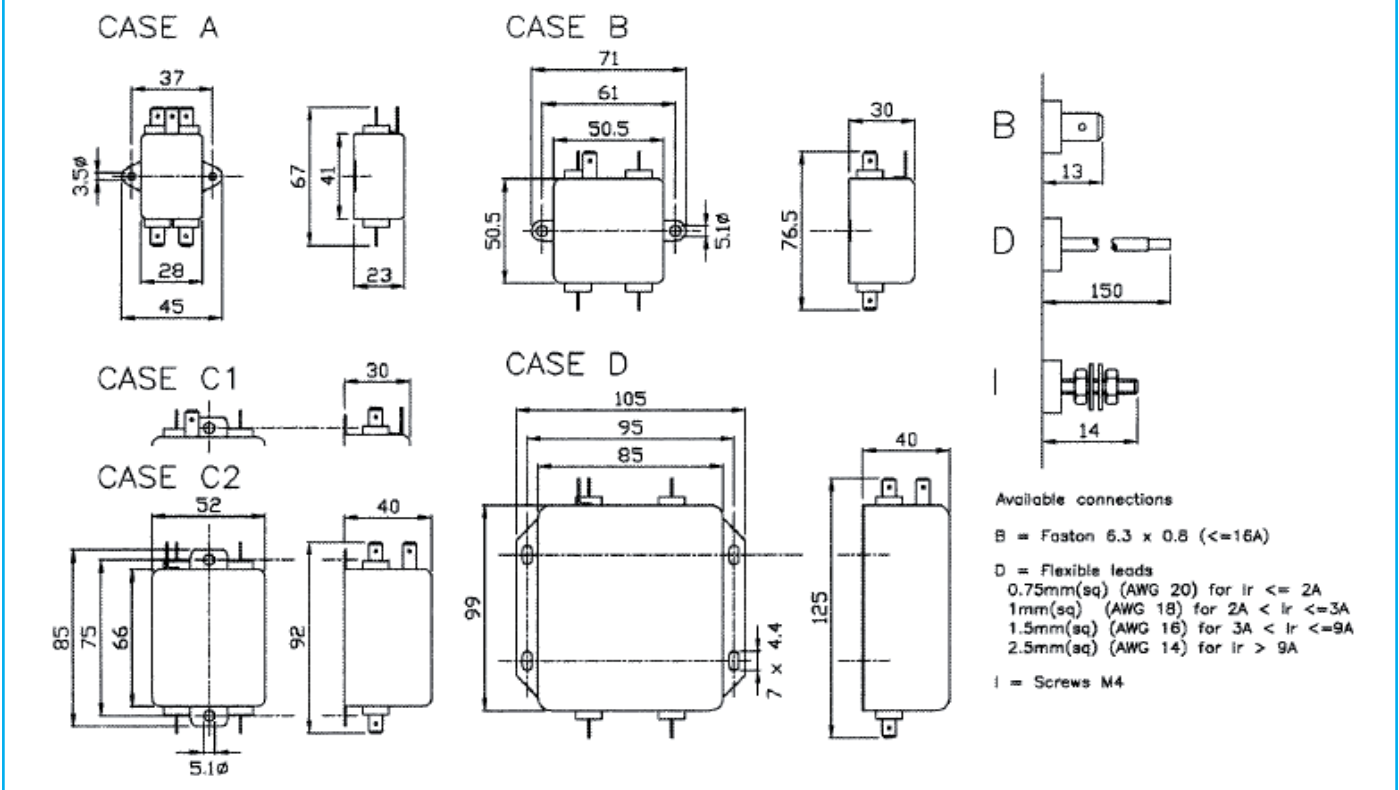
Leakage current ( $I_L$ ): at 220V, 50Hz, max value

Voltage test (2 s.): line to ground 3000Vdc or 1800Vac  
line to line 1700Vdc

Climatic category: HPF (25/085/21);


Temperature range: -25°C to +85°C

## Dimensions (mm)



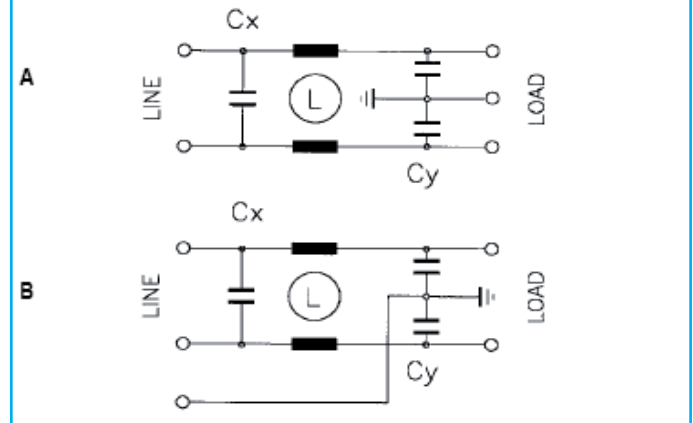
## Filter Range

| FAI Code    | I <sub>R</sub> (A) | L (mH) | C <sub>x</sub> (μF) | C <sub>y</sub> (pF) | I <sub>L</sub> (mA) | R (MΩ) | Circ Diag | Case |
|-------------|--------------------|--------|---------------------|---------------------|---------------------|--------|-----------|------|
| FAIDB2150ZA | 1.5                | 2x10   | 0.015               | 2x2200              | 2x0.2               |        | A         | A    |
| FAIDB2150ZB | 1                  | 2x10   | 0.015               | 2x2200              | 2x0.2               |        | A         | A    |
| FAIDB2150ZC | 3                  | 2x2    | 0.015               | 2x2200              | 2x0.2               |        | A         | A    |
| FAIDB2150ZD | 6.5                | 2x1    | 0.015               | 2x2200              | 2x0.2               |        | A         | A    |
| FAID-2330ZA | 10                 | 2x0.5  | 0.033               | 2x2200              | 2x0.2               | 1      | B         | B    |
| FAID-2330ZB | 20                 | 2x0.5  | 0.033               | 2x2200              | 2x0.2               | 1      | B         | B    |
| FAID-2330ZC | 30                 | 2x0.6  | 0.033               | 2x2200              | 2x0.2               | 1      | B         | D    |
| FAID-3100ZA | 5                  | 2x1    | 0.1                 | 2x3200              | 2x0.29              | 1      | B         | B    |
| FAID-3100ZB | 5                  | 2x1.7  | 0.1                 | 2x3200              | 2x0.29              | 1      | B         | B    |



 B = Faston 6.3x0.8mm  
 D = Flexible leads  
 I = Screw M4

\* other variants on request

### Circuit diagram



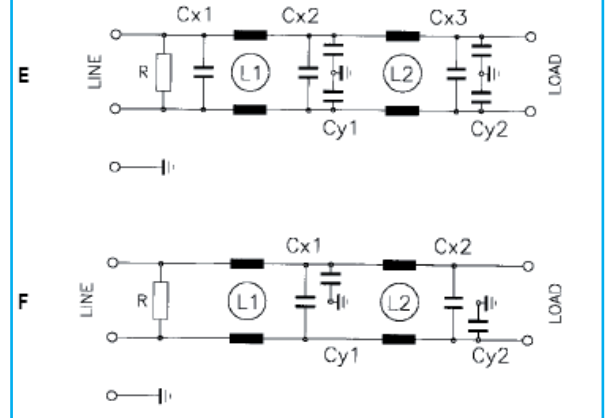
| FAK Code    | I <sub>R</sub> (A) | L <sub>1</sub> (mH) | L <sub>2</sub> (mH) | C <sub>x1</sub> (μF) | C <sub>x2</sub> (μF) | C <sub>x3</sub> (μF) | C <sub>y1</sub> (pF) | C <sub>y2</sub> (pF) | I <sub>L</sub> (mA) | R (MΩ) | Circ Diag | Case |
|-------------|--------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|--------|-----------|------|
| FAKD-3300ZA | 3                  | 2x2                 | 2x2                 | 0.15                 | 0.15                 |                      | 2x2200               |                      | 2x0.2               | 1      | E         | C1   |
| FAKD-3300ZB | 6                  | 2x1                 | 2x1                 | 0.15                 | 0.15                 |                      | 2x2200               |                      | 2x0.2               | 1      | E         | C1   |
| FAKD-3300ZC | 10                 | 2x0.5               | 2x0.5               | 0.15                 | 0.15                 |                      | 2x2200               |                      | 2x0.2               | 1      | E         | C2   |
| FAKD-3300ZD | 20                 | 2x0.5               | 2x0.5               | 0.15                 | 0.15                 |                      | 2x2200               |                      | 2x0.2               | 1      | E         | D    |
| FAKD-3570ZA | 2.5                | 2x1                 | 2x2.5               |                      | 0.47                 | 0.1                  | 2x3300               | 2x3300               | 2x0.6               | 0.68   | E         | D    |
| FAKD-3810ZA | 10                 | 2x2.3               | 2x2.3               | 0.27                 | 0.27                 | 0.27                 | 2x5500               | 2x1000               | 2x0.6               | 0.33   | E         | D    |
| FAKD-3940ZA | 3                  | 2x4.7               | 2x4.7               | 0.47                 | 0.47                 |                      | 2x4700               |                      | 2x0.5               | 0.24   | F         | C2   |


 B = Faston 6.3x0.8mm  
 D = Flexible leads  
 I = Screw M4


VDE 60939-2  
 ■ UL approval only

\* other variants on request

### Circuit diagram



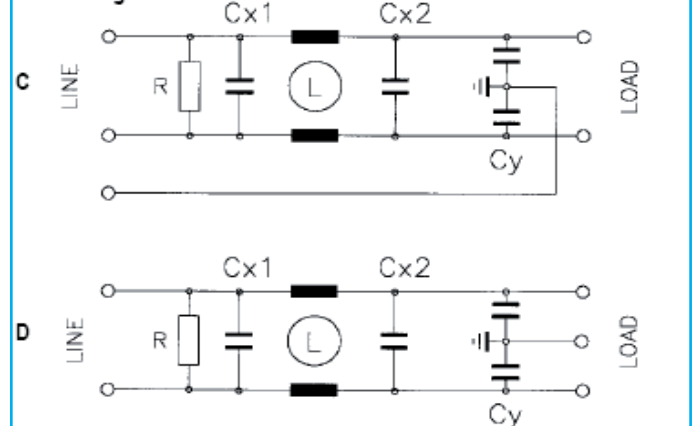
| FAM Code      | I <sub>R</sub> (A) | L (mH) | C <sub>x1</sub> (μF) | C <sub>x2</sub> (μF) | C <sub>y</sub> (pF) | I <sub>L</sub> (mA) | R (MΩ) | Circ Diag | Case |
|---------------|--------------------|--------|----------------------|----------------------|---------------------|---------------------|--------|-----------|------|
| FAMD-3200ZA   | 1                  | 2x40   | 0.1                  | 0.1                  | 2x4700              | 2x0.43              | 0.68   | C         | B    |
| FAMD-3200ZB   | 5                  | 2x1    | 0.1                  | 0.1                  | 2x3200              | 2x0.29              | 0.68   | C         | B    |
| FAMD-3200ZC   | 10                 | 2x0.5  | 0.1                  | 0.1                  | 2x2200              | 2x0.20              | 0.68   | C         | B    |
| FAMD-3200ZD   | 20                 | 2x0.5  | 0.1                  | 0.1                  | 2x2200              | 2x0.20              | 0.68   | C         | C2   |
| FAMD-3200ZE   | 30                 | 2x0.6  | 0.1                  | 0.1                  | 2x2200              | 2x0.20              | 0.68   | C         | D    |
| ▲ FAMD-3440ZA | 10                 | 2x1    | 0.22                 | 0.22                 | 2x4700              | 2x0.43              | 0.47   | D         | B    |
| FAMD-3470ZA   | 6.5                | 2x4    |                      | 0.47                 | 2x1000              | 2x0.09              | 0.68   | C         | C2   |
| FAMD-3600ZC   | 16                 | 2x1    |                      | 0.6                  | 2x2500              | 2x0.23              | 0.47   | C         | C2   |
| FAMD-3600ZD   | 22                 | 2x0.2  |                      | 0.6                  | 2x2500              | 2x0.23              | 0.47   | C         | C2   |
| ▲ FAMD-3600ZE | 20                 | 2x1    |                      | 0.6                  | 2x4700              | 2x0.43              | 0.47   | D         | C2   |
| ▲ FAMD-3600ZF | 40                 | 2x0.23 |                      | 0.6                  | 2x4700              | 2x0.43              | 0.47   | D         | C2   |
| ▲ FAMD-3600ZH | 30                 | 2x0.23 |                      | 0.6                  | 2x4700              | 2x0.43              | 0.47   | D         | C2   |
| ▲ FAMD-3600ZK | 25                 | 2x0.5  | 0.6                  |                      | 2x4700              | 2x0.43              | 0.47   | D         | C2   |
| ▲ FAMD-3600ZL | 25                 | 2x0.5  | 0.6                  |                      | 2x22000             | 2x2.0               | 0.47   | D         | C2   |
| FAMD-3940ZA   | 4.5                | 2x20   | 0.47                 | 0.47                 | 2x10000             | 2x0.91              | 0.33   | C         | C2   |
| FAMD-3940ZB   | 3.3                | 2x13   | 0.47                 | 0.47                 | 2x6800              | 2x0.62              | 0.33   | C         | C2   |
| ■ FAMD-4100ZB | 16                 | 2x0.5  |                      | 1.0                  | 2x2500              | 2x0.23              | 0.33   | D         | C2   |
| ▲ FAMD-4160ZA | 25                 | 2x0.5  | 1.0                  | 0.68                 | 2x22000             | 2x2.0               | 0.47   | C         | C2   |


 B = Faston 6.3x0.8mm  
 D = Flexible leads  
 I = Screw M4

▲ VDE 60939-2 only  
 ■ UL approval only


\* other variants on request

### Circuit diagram



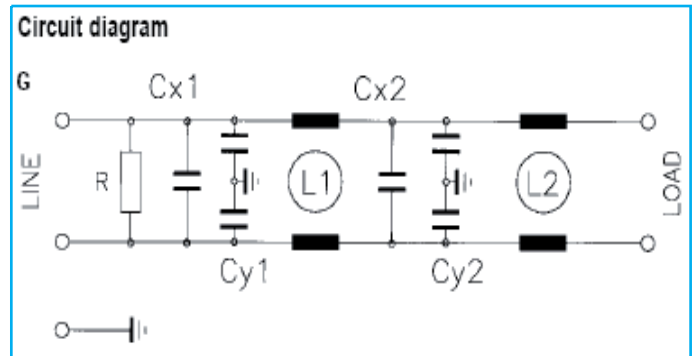
## Filter Range

| FAR Code      | I <sub>r</sub> (A) | L <sub>1</sub> (mH) | L <sub>2</sub> (mH) | C <sub>x1</sub> (μF) | C <sub>x2</sub> (μF) | C <sub>y1</sub> (pF) | C <sub>y2</sub> (pF) | I <sub>L</sub> (mA) | R (MΩ) | Circ Diag | Case |
|---------------|--------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|--------|-----------|------|
| FARD-3620ZA   | 1.5                | 2x7                 | 2x7                 | 0.47                 | 0.15                 |                      | 2x2200               | 2x0.2               | 0.47   | G         | C2   |
| FARD-3620ZB   | 2.5                | 2x12                | 2x2                 | 0.47                 | 0.15                 |                      | 2x2200               | 2x0.2               | 0.47   | G         | C2   |
| FARD-3620ZC   | 5                  | 2x7                 | 2x7                 | 0.47                 | 0.15                 |                      | 2x2200               | 2x0.2               | 0.47   | G         | C2   |
| FARD-3620ZD   | 8.5                | 2x10                | 2x3                 | 0.47                 | 0.15                 |                      | 2x2200               | 2x0.2               | 0.47   | G         | D    |
| ▲ FARD-3940ZA | 0.5                | 2x40                | 2x40                | 0.47                 | 0.47                 |                      | 2x3300               |                     | 2x0.3  | G         | C1   |



 B = Faston 6.3x0.8mm  
 D = Flexible leads  
 I = Screw M4

▲ VDE 60939-2 only

\* other variants on request

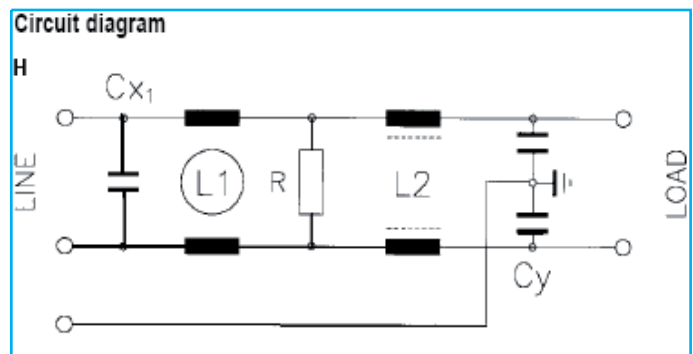


| FAS Code      | I <sub>r</sub> (A) | L <sub>1</sub> (mH) | L <sub>2</sub> (mH) | C <sub>x1</sub> (μF) | C <sub>y</sub> (pF) | I <sub>L</sub> (mA) | R (MΩ) | Circ Diag | Case |
|---------------|--------------------|---------------------|---------------------|----------------------|---------------------|---------------------|--------|-----------|------|
| FASD-3220ZA   | 1                  | 2x22                | 2x0.3               | 0.22                 | 2x4700              | 2x0.43              | 1      | H         | B    |
| FASD-3220ZB   | 2.5                | 2x16                | 2x0.3               | 0.22                 | 2x4700              | 2x0.43              | 1      | H         | C2   |
| FASD-3470ZA   | 6.5                | 2x4                 | 2x0.05              | 0.47                 | 2x22000             | 2x2                 | 0.47   | H         | D    |
| FASD-3470ZB   | 10                 | 2x4                 | 2x0.05              | 0.47                 | 2x22000             | 2x2                 | 0.47   | H         | D    |
| FASD-3940ZA   | 4                  | 2x8                 | 2x0.05              | 0.94                 | 2x22000             | 2x2                 | 0.33   | H         | C2   |
| ▲ FASD-3940ZC | 10                 | 2x4                 | 2x0.05              | 2x0.47               | 2x22000             | 2x2                 | 0.33   | H         | D    |


 B = Faston 6.3x0.8mm  
 D = Flexible leads  
 I = Screw M4

▲ VDE 60939-2 only

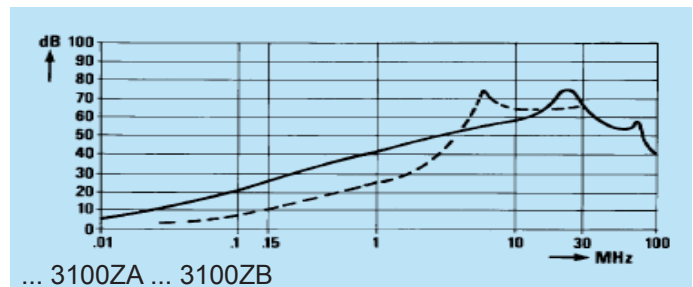
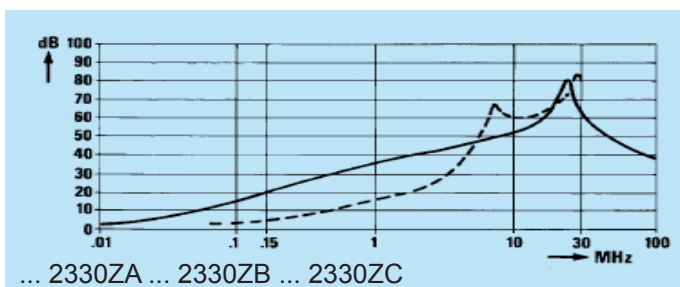
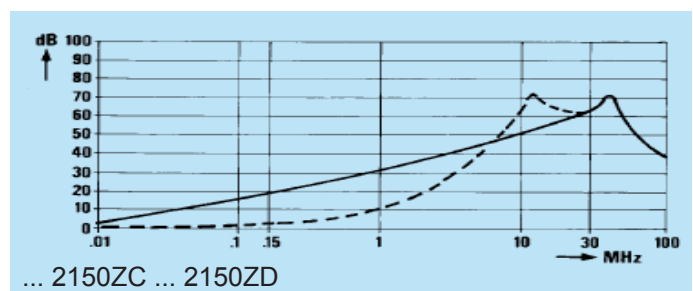
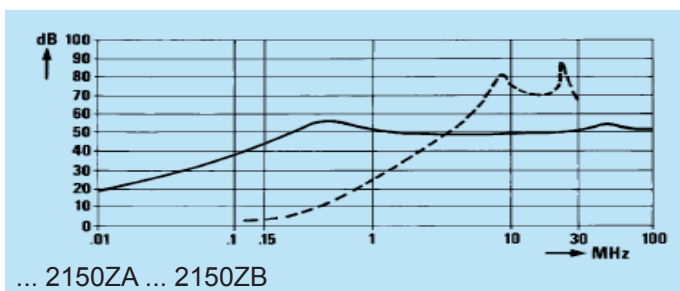
\* other variants on request



Insertion loss (typical):

Asymmetrical (line to ground) - - - Symmetrical (line to line)

## FAI

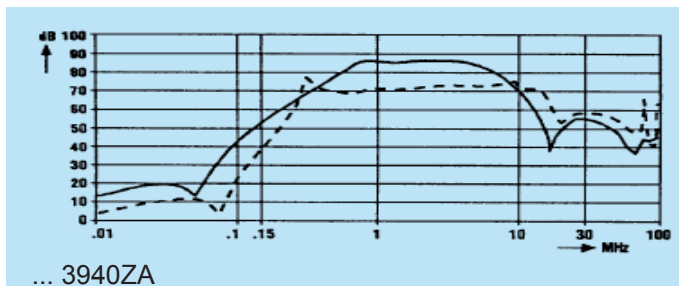
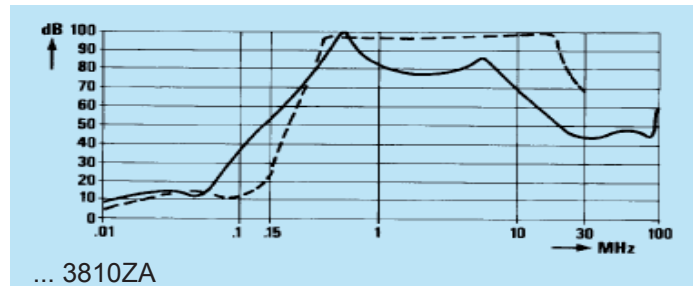
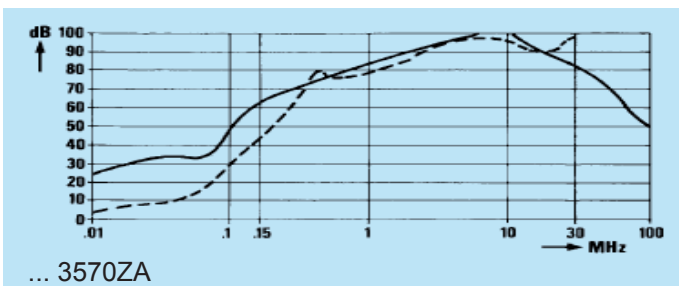
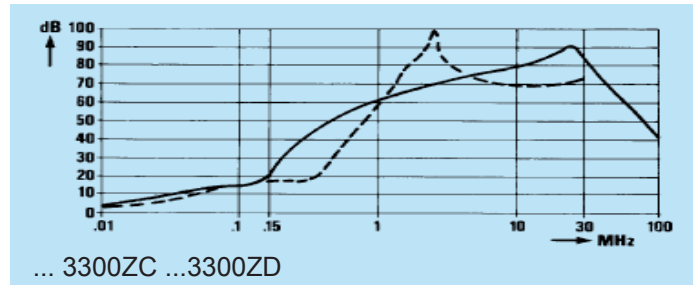
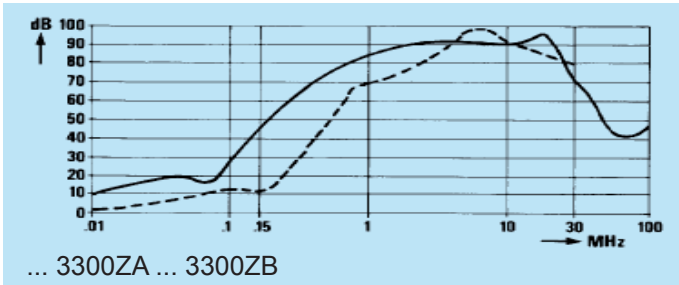


Approvals



Insertion loss (typical): — Asymmetrical (line to ground) - - - Symmetrical (line to line)

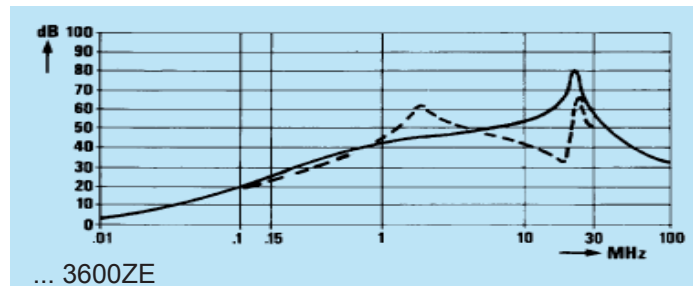
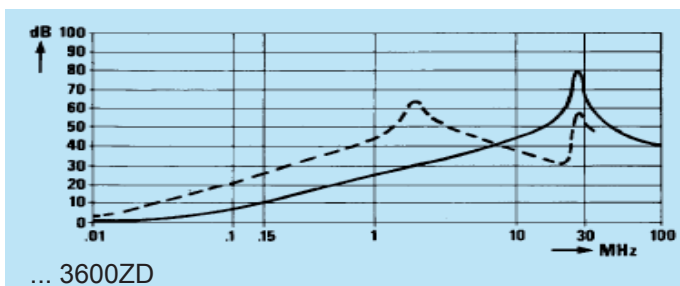
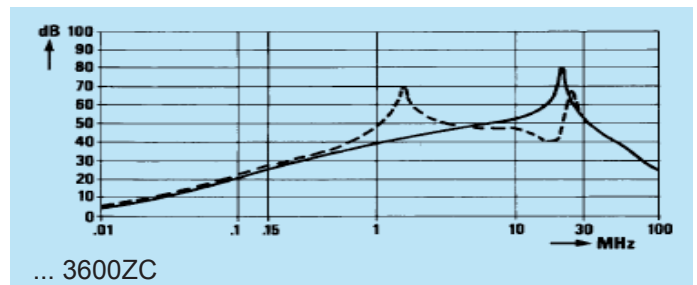
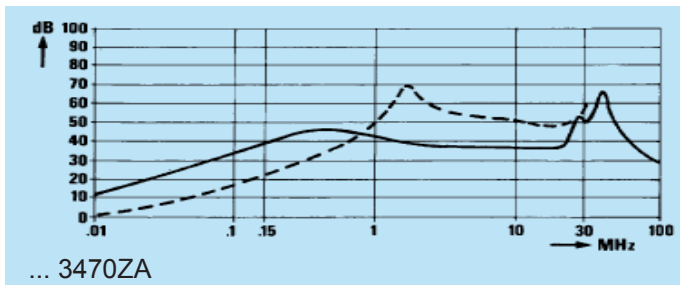
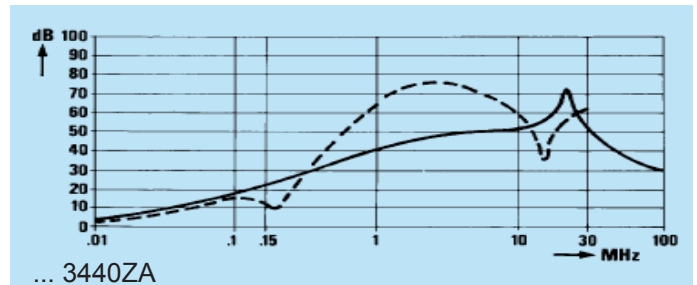
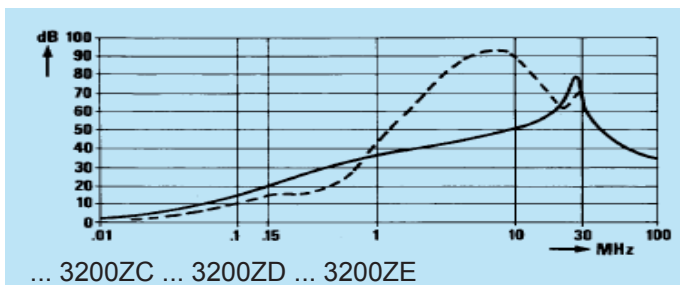
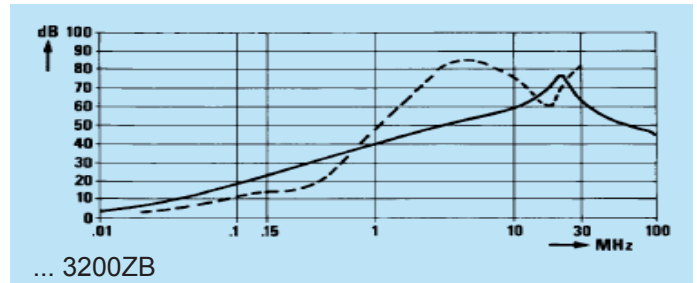
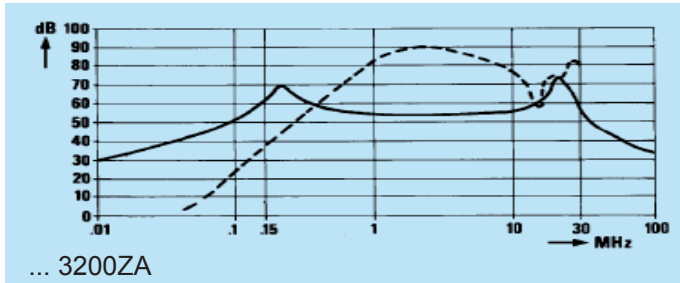
## FAK





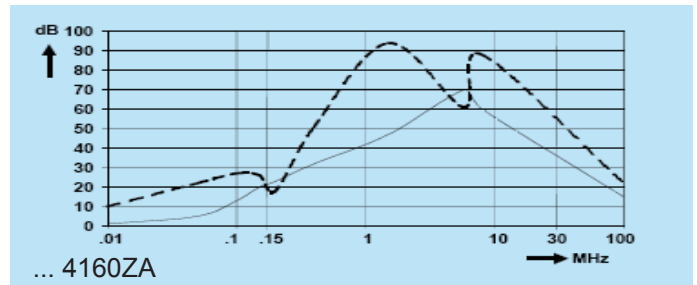
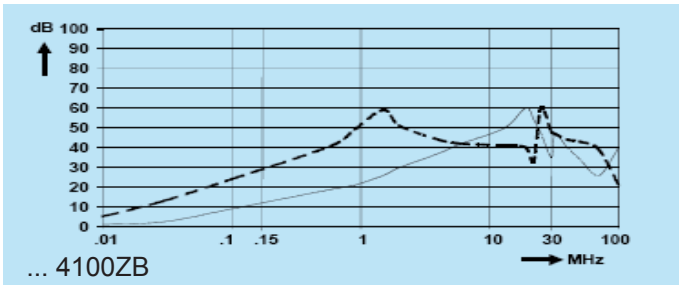
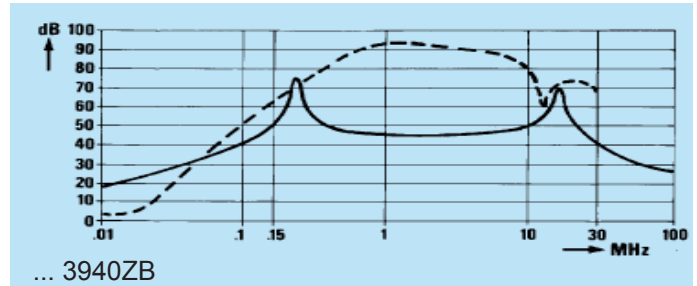
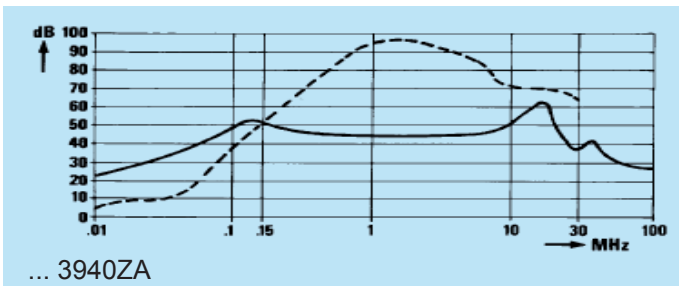
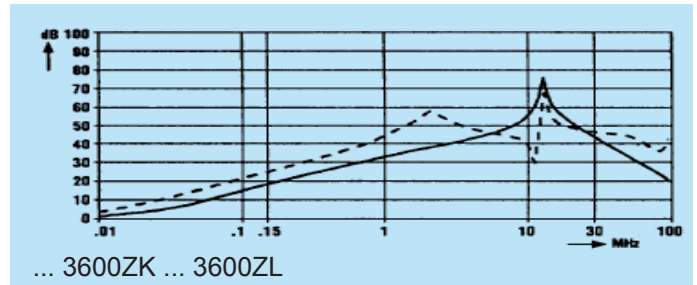
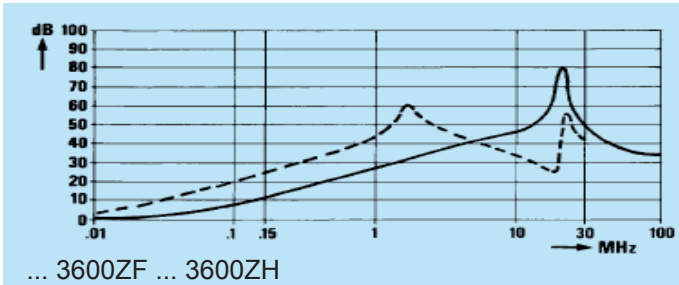
Insertion loss (typical): — Asymmetrical (line to ground) - - - Symmetrical (line to line)

## FAM



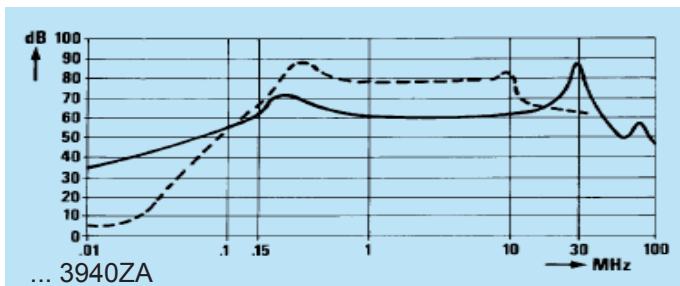
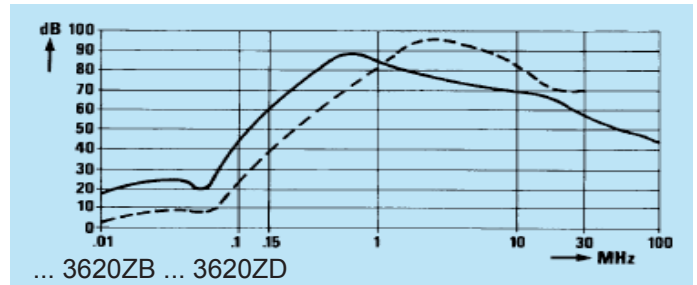
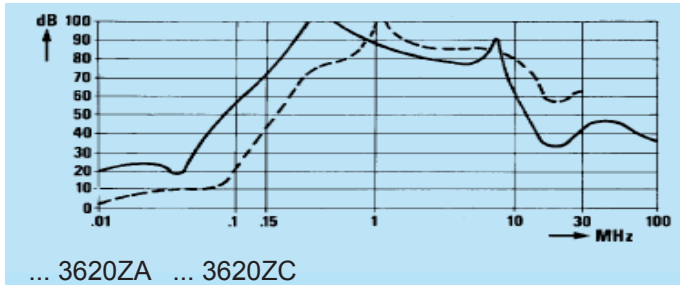
Insertion loss (typical): — Asymmetrical (line to ground) - - - Symmetrical (line to line)

## FAM

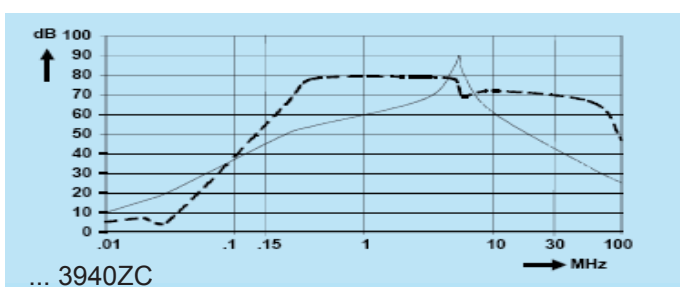
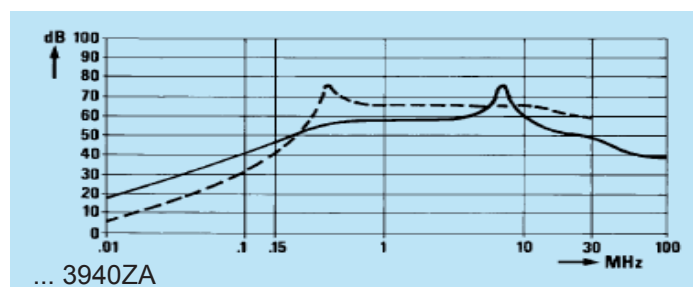
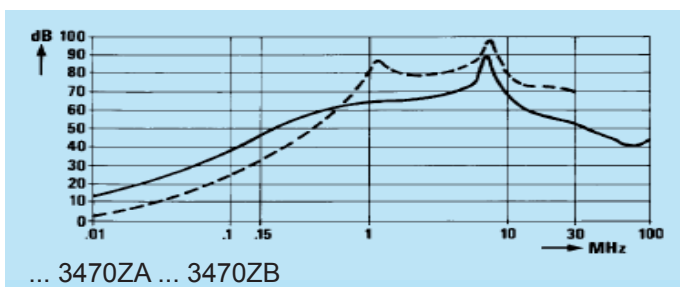
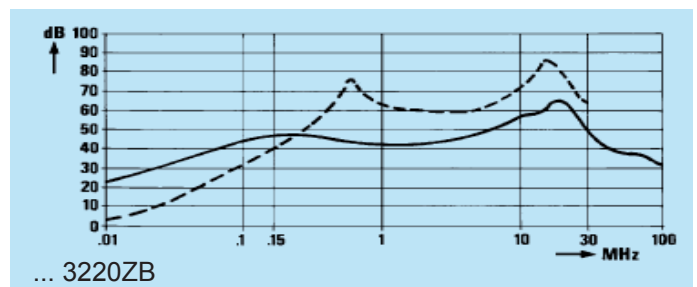
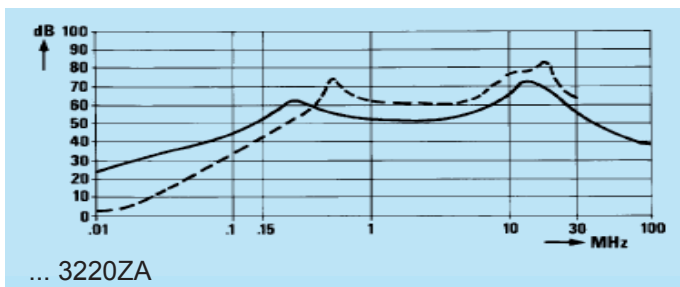


Insertion loss (typical): — Asymmetrical (line to ground) - - - Symmetrical (line to line)

## FAR



## FAS



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Power Line Filters](#) category:*

*Click to view products by [Kemet](#) manufacturer:*

Other Similar products are found below :

[5B1](#) [6609019-3](#) [6609026-5](#) [6609030-6](#) [6609063-2](#) [6609973-2](#) [7-1609090-5](#) [F1500CA06](#) [F7382Z](#) [F7863Z](#) [FAHAV3100ZC000](#) [806276](#)  
[FMAC-0FIA-6400](#) [FN2020B-1-06](#) [FN2080B-10-06](#) [FN2090A-1-06](#) [FN2410H-32-33](#) [FN2410H-80-34](#) [FN2412H-16-44](#) [FN420-1-13](#) [FP144](#)  
[8-6609089-0](#) [12-MMB-030-11-D](#) [B84144A0050R120](#) [B84144A90R120](#) [20B1](#) [RSEL-2001A](#) [2B1](#) [LP183](#) [1-6609070-1](#) [F1500CA10](#) [1B1](#)  
[FN2020A-10-06](#) [FN2020B-3-06](#) [FN2060A-3-06](#) [FN2070A-16-06](#) [FN2070B-16-08](#) [FN2090A-20-06](#) [FN2090B-12-06](#) [FN2090Z-1-06](#)  
[FN2410H-25-33](#) [FN2410H-60-34](#) [FN2410H-8-44](#) [FN2412H-25-33](#) [FN2412H-8-44](#) [FN610R-3-06](#) [20EHZ7](#) [20K1](#) [30B6](#) [30BCF10R](#)