

AC Feedthrough Filters - Class Y2

FFA Series



Component Recognized by
UL to US and Canadian Requirements

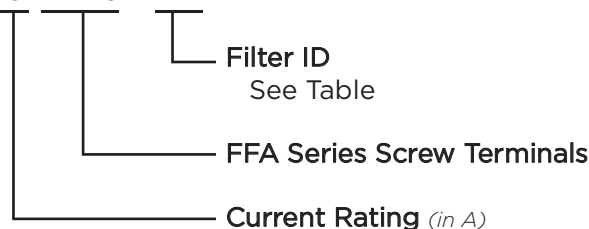


FFA Series

- AC feedthrough filters
- Current Ratings from 10 to 300A
- Designed to meet the very stringent safety requirements of EN133200 class Y2 including the 5000V pulse test
- Custom versions available

Ordering Information

10 FFA6 - BA



Filter Options / Specifications

| Filter ID | Value (nF) | Inductance (nH) | Max. Leakage Current (mA)* | DC Resistance (mΩ) Max. |
|-----------|------------|-----------------|----------------------------|-------------------------|
| BA | 2 x 4.7 | 70 | 0.9 | 6 |
| CA | 2 x 10 | 70 | 1.9 | 4 |
| CE | 2 x 10 | 140 | 1.9 | 7 |
| DG | 2 x 22 | 170 | 4.2 | 4 |
| DH | 2 x 22 | 180 | 4.2 | 4 |
| GB | 2 x 47 | 80 | 8.9 | 3 |
| GJ | 2 x 47 | 210 | 8.9 | 9 |
| HC | 2 x 100 | 90 | 19 | 2 |
| HD | 2 x 100 | 120 | 19 | 1 |
| HF | 2 x 100 | 160 | 19 | < 1 |
| HN | 2 x 100 | 250 | 19 | 6 |
| JK | 2 x 150 | 240 | 29 | 3 |
| NP | 2 x 470 | 330** | 89 | < 2 |
| PP | 2 x 1000 | 330 | 188 | < 2 |

*@ 250 VAC 60 Hz
**240 for 100A Version

Specifications

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Rated Current: 10 to 300A
- Test Voltage (two seconds): 5000 VDC
- Capacitor Class (EN133200): Designed to meet Y2
- Pulse Test (EN133200): 5000V Peak

Insulation Resistance (within 1 minute):
For C < 0.33μF, R > 15000MΩ
For C > 0.33μF, RC(MΩ*μF) > 5000s

Operating Ambient Temperature Range (at rated current I_r):
10 to 100A: -40°C to +60°C
200A: -40°C to +50°C
250 & 300A: -40°C to +40°C

Category Temperature Range: -40°C to +85°C

Current Derating Above Ambient:
10-100A: For temperature, θ I_θ = IR √(85-θ)/25
200A: For temperature, θ I_θ = IR √(85-θ)/35
250 & 300A: For temp., θ I_θ = IR √(85-θ)/45

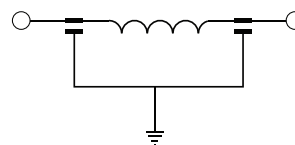
Climatic Category: 40/85/21

MTBF: > 5 million hours typical

Insulating Materials Flammability Rating: UL94V-0

Case & Terminal Material: Nickel Plated Brass

Electrical Schematic



AC Feedthrough Filters - Class Y2 *(continued)*

FFA Series

Case Style



T1 - Terminal Thread

| Part No. | Thread | Torque max. in.lb. |
|------------------|--------|--------------------|
| 10FFA6-BA/CE/CJ | M3 | 4 |
| 16FFA6-CA/DG/HN | M4 | 11 |
| 32FFA6-CA/DH/HN | M6 | 22 |
| 63FFA6-GB/JK/NP | M6 | 22 |
| 100FFA6-HC/NP/PP | M8 | 44 |
| 200FFA6-HD/NP/PP | M10 | 70 |
| 250FFA6-HF/NP/PP | M12 | 97 |
| 300FFA6-HF/NP/PP | M16 | 177 |

T2 - Mounting Thread

| Part No. | Thread | Torque max. in.lb. |
|------------------|-----------|--------------------|
| 10FFA6-BA/CE/CJ | | |
| 16FFA6-CA | M12 x 1 | 35 |
| 32FFA6-CA | | |
| 16FFA6-DG/HN | | |
| 32FFA6-DH/HN | M16 x 1 | 62 |
| 63FFA6-GB | | |
| 63FFA6-JK | M20 x 1 | 89 |
| 100FFA6-HC | | |
| 100FFA6-NP | M24 x 1 | 124 |
| 200FFA6-HD | | |
| 63FFA6-NP | | |
| 100FFA6-PP | M27 x 1.5 | 142 |
| 200FFA6-NP/PP | | |
| 250FFA6-HF/NP/PP | M32 x 1.5 | 212 |
| 300FFA6-HF/NP/PP | | |

Case Dimensions

| Part No. | A | B | C | D | E | F |
|------------|---------------------|-----------------------|---------------------|---------------------|---------------------|-------------------|
| | $\frac{\pm .04}{1}$ | $\frac{\pm .02}{0.5}$ | $\frac{\pm .08}{2}$ | $\frac{\pm .04}{1}$ | $\frac{\pm .08}{2}$ | (max) |
| 10FFA6-BA | 3.86 98 | 0.79 20 | 2.24 57 | 0.47 12 | 0.63 16 | 0.67 17 |
| 16FFA6-CA | 4.17 | 0.79 | 2.40 | 0.47 | 0.71 | 0.67 |
| 32FFA6-CA | 106 | 20 | 61 | 12 | 18 | 17 |
| 63FFA6-GB | 6.30 160 | 0.98 25 | 3.70 94 | 0.55 14 | 1.02 26 | 0.87 22 |
| 100FFA6-HC | 7.24 184 | 1.26 32 | 4.09 104 | 0.63 16 | 1.26 32 | 1.06 27 |
| 200FFA6-HD | 8.23 209 | 1.50 38 | 4.41 112 | 0.75 19 | 1.57 40 | 1.06 27 |
| 300FFA6-HF | 7.87 200 | 2.13 54 | 3.66 93 | 0.75 19 | 1.81 46 | 1.57 40 |
| 10FFA6-CE | 4.21 107 | 0.79 20 | 2.60 66 | 0.47 12 | 0.63 16 | 0.67 17 |
| 16FFA6-DG | 4.57 | 0.98 | 2.72 | 0.55 | 0.71 | 0.87 |
| 32FFA6-DH | 116 | 25 | 69 | 14 | 18 | 22 |
| 63FFA6-JK | 6.81 173 | 1.26 32 | 4.13 105 | 0.63 16 | 1.02 26 | 1.06 27 |
| 100FFA6-NP | 8.98 228 | 1.50 38 | 5.71 145 | 0.75 19 | 1.26 32 | 1.06 27 |
| 200FFA6-NP | 9.57 243 | 2.13 54 | 5.75 146 | 0.75 19 | 1.57 40 | 1.57 40 |
| 250FFA6-NP | 10.51 | 2.13 | 6.30 | 0.75 | 1.81 | 1.57 |
| 300FFA6-HN | 267 | 54 | 160 | 19 | 46 | 40 |
| 10FFA6-GJ | 5.51 140 | 0.79 20 | 3.90 99 | 0.47 12 | 0.63 16 | 0.67 17 |
| 16FFA6-HN | 5.83 | 0.98 | 3.98 | 0.55 | 0.71 | 0.87 |
| 32FFA6-HN | 148 | 25 | 101 | 14 | 18 | 22 |
| 63FFA6-NP | 7.44 189 | 2.13 54 | 4.65 118 | 0.75 19 | 1.02 26 | 1.57 40 |
| 100FFA6-PP | 8.94 227 | 2.13 54 | 5.67 144 | 0.75 19 | 1.26 32 | 1.57 40 |
| 200FFA6-PP | 9.57 243 | 2.13 54 | 5.75 146 | 0.75 19 | 1.57 40 | 1.57 40 |
| 250FFA6-PP | 10.51 | 2.13 | 6.3 | 0.75 | 1.81 | 1.57 |
| 300FFA6-PP | 267 | 54 | 160 | 19 | 46 | 40 |

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

For email, phone or live chat, please go to te.com/help or corcom.com

AC Feedthrough Filters - Class Y2 *(continued)*

FFA Series

Available Part Numbers

| Standard Performance | High Performance | Extended Performance |
|----------------------|------------------|----------------------|
| 10FFA6-BA | 10FFA6-CE | 10FFA6-GJ |
| 16FFA6-CA | 16FFA6-DG | 16FFA6-HN |
| 32FFA6-CA | 32FFA6-DH | 32FFA6-HN |
| 63FFA6-GB | 63FFA6-JK | 63FFA6-NP |
| 100FFA6-HC | 100FFA6-NP | 100FFA6-PP |
| 200FFA6-HD | 200FFA6-NP | 200FFA6-PP |
| 250FFA6-HF | 250FFA6-NP | 250FFA6-PP |
| 300FFA6-HF | 300FFA6-NP | 300FFA6-PP |

Performance Data

Typical Insertion Loss – Line to Ground in 50 Ohm circuit

| Filter ID | Frequency – MHz | | | | | | | | |
|-----------|-----------------|------|-----|-----|----|----|-----|------|--|
| | 0.01 | 0.03 | 0.1 | 0.3 | 1 | 10 | 100 | 1000 | |
| BA | - | - | - | - | 4 | 18 | 80 | 100 | |
| CA | - | - | 2 | 4 | 10 | 22 | 65 | 100 | |
| CE | - | - | 2 | 3 | 10 | 28 | 65 | 100 | |
| DG | - | - | 3 | 7 | 15 | 40 | 72 | 100 | |
| DH | - | - | 3 | 7 | 15 | 40 | 72 | 100 | |
| GB | - | - | 6 | 11 | 21 | 50 | 85 | 100 | |
| GJ | - | - | 5 | 12 | 21 | 60 | 90 | 100 | |
| HC | - | 2 | 10 | 18 | 27 | 60 | 100 | 100 | |
| HD | - | 2 | 10 | 18 | 27 | 60 | 100 | 100 | |
| HF | - | 2 | 10 | 18 | 27 | 60 | 100 | 100 | |
| HN | 2 | 4 | 10 | 17 | 24 | 75 | 90 | 100 | |
| JK | 3 | 8 | 15 | 21 | 28 | 72 | 100 | 100 | |
| NP | 7 | 15 | 24 | 31 | 44 | 80 | 100 | 100 | |
| PP | 12 | 20 | 29 | 33 | 56 | 80 | 100 | 100 | |

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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