

AC Feedthrough Capacitors - Class Y2

AFC Series



Component Recognized by
UL to US and Canadian Requirements



AFC Series

- AC feedthrough capacitors
- Current ratings from 10 to 300A
- Designed to meet the very stringent safety requirements of EN132400 class Y2 including the 5000V pulse test
- Custom versions available

Ordering Information



Filter Options / Specifications

| Filter ID | Value (nF) | Max. Leakage Current (mA)* |
|-----------|------------|----------------------------|
| A | 2.2 | 0.21 |
| B | 4.7 | 0.44 |
| C | 10 | 0.94 |
| F | 33 | 3.1 |
| G | 47 | 4.4 |
| H | 100 | 9.4 |
| K | 220 | 21 |
| N | 470 | 44 |
| P | 1000 | 94 |

*@250VAC 60 Hz

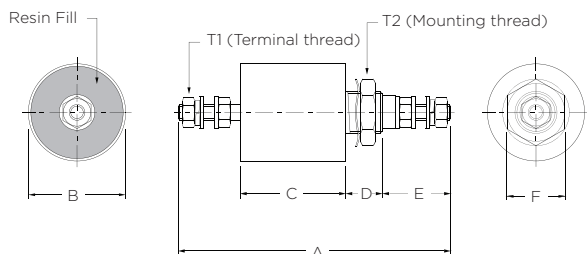
Specifications

| | |
|---|--|
| Rated Voltage (max): | 250 VAC |
| Operating Frequency: | 50/60 Hz |
| Rated Current: | 10 to 300A |
| Test Voltage (two seconds): | 5000 VDC |
| Capacitor Class (EN132400): | Designed to meet Y2 |
| Pulse Test (EN132400): | 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 200A: -40°C to +60°C |
| | 250 & 300A: -40°C to +40°C |
| Category Temperature Range: | -40°C to +85°C |
| Current Derating Above Ambient: | |
| | 10-200A: For temperature, θ $I_{\theta} = IR \sqrt{(85-\theta)/25}$ |
| | 250 & 300A: For temp., θ $I_{\theta} = IR \sqrt{(85-\theta)/45}$ |
| Climatic Category: | 40/85/21 |
| MTBF: | > 10 million hours typical |
| Insulating Materials Flammability Rating: | UL94V-0 |
| Case & Terminal Material: | Nickel Plated Brass |

AC Feedthrough Capacitors - Class Y2 *(continued)*

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Case Style



T1 - Terminal Thread

| Part No. | Thread | Torque max. in.lb. |
|------------------|--------|--------------------|
| 10AFC6-A/B | M3 | 4 |
| 16AFC6-B/C/G/H | M4 | 11 |
| 20AFC6-B | | |
| 32AFC6-B/C/F/G/H | | |
| 63AFC6-C/G/H | M6 | 22 |
| 100AFC6-G/H/K/N | M8 | 44 |
| 200AFC6-H/K/N/P | M10 | 71 |
| 250AFC6-H/K/N/P | M12 | 97 |
| 300AFC6-H/K/N/P | M16 | 177 |

T2 - Mounting Thread

| Part No. | Thread | Torque max. in.lb. |
|----------------|-----------|--------------------|
| 10AFC6-A/B | M10 x 1 | 27 |
| 16AFC6-B/C/G | M12 x 1 | 35 |
| 20AFC6-B | | |
| 32AFC6-B/C/G/F | | |
| 16AFC6-H | M16 x 1 | 62 |
| 32AFC6-H | | |
| 63AFC6-C/G/H | | |
| 100AFC6-G/H | M20 x 1 | 89 |
| 100AFC6-K/N | M24 x 1 | 124 |
| 200AFC6-H/K | | |
| 200AFC6-N/P | M27 x 1.5 | 142 |

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) |
| 10AFC6-A | 2.24 | 0.59 | 0.71 | 0.39 | 0.63 | 0.51 |
| 10AFC6-B | 57 | 15 | 18 | 10 | 16 | 13 |
| 16AFC6-B | 2.48 | 0.79 | 0.71 | 0.47 | 0.71 | 0.67 |
| 16AFC6-C | 63 | 20 | 18 | 12 | 18 | 17 |
| 16AFC6-G | 2.95 | 0.79 | 1.18 | 0.47 | 0.71 | 0.67 |
| | 75 | 20 | 30 | 12 | 18 | 17 |
| 16AFC6-H | 3.03 | 0.98 | 1.18 | 0.55 | 0.71 | 0.87 |
| | 77 | 25 | 30 | 14 | 18 | 22 |
| 20AFC6-B | 2.48 | 0.79 | 0.71 | 0.47 | 0.71 | 0.67 |
| | 63 | 20 | 18 | 12 | 18 | 17 |
| 32AFC6-B | 2.48 | 0.79 | 0.71 | 0.47 | 0.71 | 0.67 |
| 32AFC6-C | 63 | 20 | 18 | 12 | 18 | 17 |
| 32AFC6-F | 2.95 | 0.79 | 1.18 | 0.47 | 0.71 | 0.67 |
| 32AFC6-G | 75 | 20 | 30 | 12 | 18 | 17 |
| 32AFC6-H | 3.03 | 0.98 | 1.18 | 0.55 | 0.71 | 0.87 |
| | 77 | 25 | 30 | 14 | 18 | 22 |
| 63AFC6-C | 3.78 | 0.98 | 1.18 | 0.55 | 1.02 | 0.87 |
| 63AFC6-G | 96 | 25 | 30 | 14 | 26 | 22 |
| 63AFC6-H | 3.78 | 0.98 | 1.18 | 0.55 | 1.02 | 0.87 |
| | 96 | 25 | 30 | 14 | 26 | 22 |
| 100AFC6-G | 4.45 | 1.26 | 1.30 | 0.63 | 1.26 | 1.06 |
| 100AFC6-H | 113 | 32 | 33 | 16 | 32 | 27 |
| 100AFC6-K | 4.57 | 1.50 | 1.30 | 0.75 | 1.26 | 1.06 |
| | 116 | 38 | 33 | 19 | 32 | 27 |
| 200AFC6-H | 5.24 | 1.50 | 1.97 | 0.75 | 1.26 | 1.06 |
| 200AFC6-K | 133 | 38 | 50 | 19 | 32 | 27 |
| 200AFC6-N | 5.12 | 1.50 | 1.30 | 0.75 | 1.57 | 1.06 |
| 200AFC6-P | 130 | 38 | 33 | 19 | 40 | 27 |
| 250AFC6-H | 5.79 | 2.13 | 1.97 | 0.75 | 1.57 | 1.57 |
| 250AFC6-K | 147 | 54 | 50 | 19 | 40 | 40 |
| 250AFC6-N | 5.83 | 2.13 | 1.65 | 0.75 | 1.81 | 1.57 |
| 250AFC6-P | 148 | 54 | 42 | 19 | 46 | 40 |
| 300AFC6-H | 6.30 | 2.13 | 2.13 | 0.75 | 1.81 | 1.57 |
| 300AFC6-K | 160 | 54 | 54 | 19 | 46 | 40 |
| 300AFC6-N | 5.83 | 2.13 | 1.65 | 0.75 | 1.81 | 1.57 |
| 300AFC6-P | 148 | 54 | 42 | 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 Capacitors - Class Y2 *(continued)*

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Available Part Numbers

| | | |
|----------|-----------|-----------|
| 10AFC6-A | 32AFC6-H | 200AFC6-P |
| 10AFC6-B | 63AFC6-C | 250AFC6-H |
| 16AFC6-B | 63AFC6-G | 250AFC6-K |
| 16AFC6-C | 63AFC6-H | 250AFC6-N |
| 16AFC6-G | 100AFC6-H | 250AFC6-P |
| 16AFC6-H | 100AFC6-H | 300AFC6-H |
| 20AFC6-B | 100AFC6-K | 300AFC6-K |
| 32AFC6-B | 100AFC6-N | 300AFC6-N |
| 32AFC6-C | 200AFC6-H | 300AFC6-P |
| 32AFC6-F | 200AFC6-K | |
| 32AFC6-G | 200AFC6-N | |

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 |
| A | - | - | - | - | - | 8 | 38 | 45 |
| B | - | - | - | - | - | 14 | 43 | 60 |
| C | - | - | - | - | 3 | 21 | 45 | 70 |
| F | - | - | - | 4 | 12 | 30 | 48 | 90 |
| G | - | - | 2 | 6 | 15 | 34 | 50 | 90 |
| H | - | 2 | 5 | 11 | 20 | 40 | 65 | 90 |
| K | - | 4 | 11 | 18 | 27 | 45 | 85 | 90 |
| N | 6 | 9 | 16 | 22 | 33 | 33 | 90 | 90 |
| P | 10 | 15 | 22 | 30 | 40 | 42 | 90 | 90 |

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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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