

Type MMWA, Polyester Film Capacitors

Metallized Axial Leads



High Capacitance, High Voltage

Type MMWA axial-leaded, metallized polyester film capacitors incorporate compact, non-inductive extended windings with epoxy end seals to offer excellent moisture resistance and capacitance stability over the operating temperature range. Metallized polyester provides self-healing characteristics that help prevent permanent shorting due to high voltage transients.

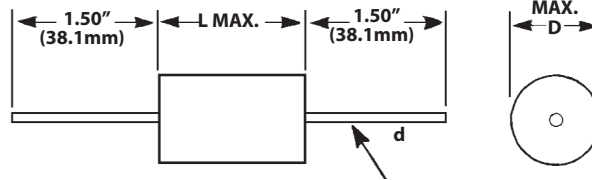
Specifications

Voltage Range: 50-1,000 Vdc
Capacitance Range: .01-10 μ F
Capacitance Tolerance: $\pm 10\%$ (K) standard
 $\pm 5\%$ (J) optional

Operating Temperature Range: -55°C to 125°C*
 *Full-rated voltage at 85°C—Derate linearly to 50%-rated voltage at 125°C

Dielectric Strength: 200% (1 minute)
Dissipation Factor: .75% Max. (25°C, 1 kHz)
Insulation Resistance: 10,000 M Ω x μ F
 30,000 M Ω Min.

Life Test: 1000 Hours at 85°C at 125% Rated Voltage



TINNED COPPER-CLAD STEEL LEADS

NOTE: Other capacitance values, sizes and performance specifications are available. Contact us.



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

Ratings and Dimensions

Normally Stocked

| Cap. (μF) | Catalog Part Number | D Inches (mm) | L Inches (mm) | d Inches (mm) | dV/dt V/μs |
|---------------|---------------------|---------------|---------------|---------------|------------|
| 50 Vdc | | | | | |
| 0.100 | MMWA05P1K-F | 0.220 (5.6) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.150 | MMWA05P15K-F | 0.210 (5.3) | 0.687 (17.4) | 0.020 (0.5) | 20 |
| 0.220 | MMWA05P22K-F | 0.240 (6.1) | 0.687 (17.4) | 0.020 (0.5) | 20 |
| 0.330 | MMWA05P33K-F | 0.280 (7.1) | 0.687 (17.4) | 0.024 (0.6) | 20 |
| 0.470 | MMWA05P47K-F | 0.320 (8.1) | 0.687 (17.4) | 0.024 (0.6) | 20 |
| 0.680 | MMWA05P68K-F | 0.290 (7.4) | 1.000 (25.4) | 0.024 (0.6) | 9 |
| 1.000 | MMWA05W1K-F | 0.335 (8.5) | 1.000 (25.4) | 0.024 (0.6) | 9 |
| 1.500 | MMWA05W1P5K-F | 0.355 (9.0) | 1.250 (31.7) | 0.024 (0.6) | 9 |
| 2.000 | MMWA05W2K-F | 0.400 (10.2) | 1.250 (31.7) | 0.024 (0.6) | 9 |
| 3.000 | MMWA05W3K-F | 0.475 (12.1) | 1.250 (31.7) | 0.024 (0.6) | 9 |
| 4.000 | MMWA05W4K-F | 0.505 (12.8) | 1.375 (34.9) | 0.024 (0.6) | 5 |
| 5.000 | MMWA05W5K-F | 0.525 (13.3) | 1.500 (38.1) | 0.024 (0.6) | 4 |
| 6.000 | MMWA05W6K-F | 0.585 (14.9) | 1.500 (38.1) | 0.032 (0.8) | 4 |
| 7.000 | MMWA05W7K-F | 0.625 (15.9) | 1.500 (38.1) | 0.032 (0.8) | 4 |
| 8.000 | MMWA05W8K-F | 0.669 (17.0) | 1.500 (38.1) | 0.040 (1.0) | 4 |
| 9.000 | MMWA05W9K-F | 0.700 (17.8) | 1.500 (38.1) | 0.040 (1.0) | 4 |
| 10.000 | MMWA05W10K-F | 0.670 (17.0) | 1.750 (44.4) | 0.040 (1.0) | 4 |

| Cap. (μF) | Catalog Part Number | D Inches (mm) | L Inches (mm) | d Inches (mm) | dV/dt V/μs |
|----------------|---------------------|---------------|---------------|---------------|------------|
| 100 Vdc | | | | | |
| 0.010 | MMWA1S1K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.015 | MMWA1S15K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.022 | MMWA1S22K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.033 | MMWA1S33K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.047 | MMWA1S47K-F | 0.217 (5.5) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.068 | MMWA1S68K-F | 0.217 (5.5) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.100 | MMWA1P1K-F | 0.236 (6.0) | 0.562 (14.3) | 0.020 (0.5) | 36 |
| 0.150 | MMWA1P15K-F | 0.236 (6.0) | 0.687 (17.4) | 0.020 (0.5) | 20 |
| 0.220 | MMWA1P22K-F | 0.256 (6.5) | 0.687 (17.4) | 0.020 (0.5) | 20 |
| 0.330 | MMWA1P33K-F | 0.295 (7.5) | 0.687 (17.4) | 0.024 (0.6) | 20 |
| 0.470 | MMWA1P47K-F | 0.320 (8.1) | 0.687 (17.4) | 0.024 (0.6) | 20 |
| 0.680 | MMWA1P68K-F | 0.320 (8.1) | 1.000 (25.4) | 0.024 (0.6) | 9 |
| 1.000 | MMWA1W1K-F | 0.374 (9.5) | 1.000 (25.4) | 0.024 (0.6) | 9 |
| 1.500 | MMWA1W1P5K-F | 0.374 (9.5) | 1.250 (31.7) | 0.024 (0.6) | 9 |
| 2.000 | MMWA1W2K-F | 0.400 (10.2) | 1.250 (31.7) | 0.024 (0.6) | 9 |
| 3.000 | MMWA1W3K-F | 0.475 (12.1) | 1.250 (31.7) | 0.024 (0.6) | 9 |
| 4.000 | MMWA1W4K-F | 0.505 (12.8) | 1.375 (34.9) | 0.032 (0.8) | 5 |

Type MMWA, Polyester Film Capacitors

| Cap. (μ F) | Catalog Part Number | D Inches (mm) | L Inches (mm) | d Inches (mm) | dV/dt V/ μ s | Cap. (μ F) | Catalog Part Number | D Inches (mm) | L Inches (mm) | d Inches (mm) | dV/dt V/ μ s |
|--------------------|------------------------|------------------|------------------|------------------|---------------------|--------------------|------------------------|------------------|------------------|------------------|---------------------|
| 5.000 | MMWA1W5K-F | 0.525 (13.3) | 1.500 (38.1) | 0.032 (0.8) | 4 | 0.680 | MMWA4P68K-F | 0.433 (11.0) | 1.500 (38.1) | 0.024 (0.6) | 10 |
| 6.000 | MMWA1W6K-F | 0.585 (14.9) | 1.500 (38.1) | 0.032 (0.8) | 4 | 1.000 | MMWA4W1K-F | 0.470 (11.9) | 1.750 (44.4) | 0.024 (0.6) | 8 |
| 7.000 | MMWA1W7K-F | 0.625 (15.9) | 1.500 (38.1) | 0.032 (0.8) | 4 | 1.500 | MMWA4W1P5K-F | 0.570 (14.5) | 1.750 (44.4) | 0.032 (0.8) | 8 |
| 8.000 | MMWA1W8K-F | 0.669 (17.0) | 1.500 (38.1) | 0.040 (1.0) | 4 | 2.000 | MMWA4W2K-F | 0.669 (17.0) | 1.750 (44.4) | 0.040 (1.0) | 8 |
| 9.000 | MMWA1W9K-F | 0.700 (17.8) | 1.500 (38.1) | 0.040 (1.0) | 4 | 3.000 | MMWA4W3K-F | 0.695 (17.6) | 2.125 (54.0) | 0.040 (1.0) | 6 |
| 10.000 | MMWA1W10K-F | 0.768 (19.5) | 1.750 (44.4) | 0.040 (1.0) | 3 | 3.500 | MMWA4W3P5K-F | 0.745 (18.9) | 2.125 (54.0) | 0.040 (1.0) | 6 |
| 200/250 Vdc | | | | | | 4.000 | MMWA4W4K-F | 0.790 (20.1) | 2.125 (54.0) | 0.040 (1.0) | 6 |
| 0.010 | MMWA2S1K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 52 | 5.000 | MMWA4W5K-F | 0.870 (22.1) | 2.125 (54.0) | 0.040 (1.0) | 6 |
| 0.015 | MMWA2S15K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 52 | 600/630 Vdc | | | | | |
| 0.022 | MMWA2S22K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 52 | 0.010 | MMWA6S1K-F | 0.217 (5.5) | 0.687 (17.4) | 0.020 (0.5) | 69 |
| 0.033 | MMWA2S33K-F | 0.197 (5.0) | 0.562 (14.3) | 0.020 (0.5) | 52 | 0.015 | MMWA6S15K-F | 0.236 (6.0) | 0.687 (17.4) | 0.020 (0.5) | 69 |
| 0.047 | MMWA2S47K-F | 0.217 (5.5) | 0.562 (14.3) | 0.020 (0.5) | 52 | 0.022 | MMWA6S22K-F | 0.276 (7.0) | 0.750 (19.0) | 0.020 (0.5) | 69 |
| 0.068 | MMWA2S68K-F | 0.200 (5.1) | 0.687 (17.4) | 0.020 (0.5) | 29 | 0.033 | MMWA6S33K-F | 0.270 (6.9) | 0.750 (19.0) | 0.024 (0.6) | 69 |
| 0.100 | MMWA2P1K-F | 0.240 (6.1) | 0.687 (17.4) | 0.020 (0.5) | 29 | 0.047 | MMWA6S47K-F | 0.305 (7.7) | 0.750 (19.0) | 0.024 (0.6) | 69 |
| 0.150 | MMWA2P15K-F | 0.276 (7.0) | 0.687 (17.4) | 0.024 (0.6) | 29 | 0.068 | MMWA6S68K-F | 0.335 (8.5) | 1.000 (25.4) | 0.024 (0.6) | 32 |
| 0.220 | MMWA2P22K-F | 0.310 (7.9) | 0.687 (17.4) | 0.024 (0.6) | 29 | 0.100 | MMWA6P1K-F | 0.374 (9.5) | 1.000 (25.4) | 0.024 (0.6) | 32 |
| 0.330 | MMWA2P33K-F | 0.365 (9.3) | 0.728 (18.5) | 0.024 (0.6) | 29 | 0.150 | MMWA6P15K-F | 0.413 (10.5) | 1.187 (30.1) | 0.024 (0.6) | 32 |
| 0.470 | MMWA2P47K-F | 0.374 (9.5) | 1.000 (25.4) | 0.024 (0.6) | 14 | 0.220 | MMWA6P22K-F | 0.430 (10.9) | 1.250 (31.7) | 0.024 (0.6) | 32 |
| 0.680 | MMWA2P68K-F | 0.365 (9.3) | 1.000 (25.4) | 0.024 (0.6) | 14 | 0.330 | MMWA6P33K-F | 0.480 (12.2) | 1.250 (31.7) | 0.024 (0.6) | 32 |
| 1.000 | MMWA2W1K-F | 0.430 (10.9) | 1.062 (27.0) | 0.024 (0.6) | 14 | 0.470 | MMWA6P47K-F | 0.470 (11.9) | 1.750 (44.4) | 0.024 (0.6) | 12 |
| 1.500 | MMWA2W1P5K-F | 0.465 (11.8) | 1.250 (31.7) | 0.024 (0.6) | 14 | 0.680 | MMWA6P68K-F | 0.570 (14.5) | 1.750 (44.4) | 0.032 (0.8) | 12 |
| 2.000 | MMWA2W2K-F | 0.525 (13.3) | 1.250 (31.7) | 0.032 (0.8) | 14 | 1.000 | MMWA6W1K-F | 0.685 (17.4) | 1.750 (44.4) | 0.040 (1.0) | 12 |
| 3.000 | MMWA2W3K-F | 0.555 (14.1) | 1.500 (38.1) | 0.032 (0.8) | 6 | 2.000 | MMWA6W2K-F | 0.805 (20.4) | 2.250 (57.1) | 0.040 (1.0) | 10 |
| 3.500 | MMWA2W3P5K-F | 0.610 (15.5) | 1.500 (38.1) | 0.032 (0.8) | 6 | 3.000 | MMWA6W3K-F | 0.945 (24.0) | 2.250 (57.1) | 0.040 (1.0) | 10 |
| 4.000 | MMWA2W4K-F | 0.590 (15.0) | 1.750 (44.4) | 0.032 (0.8) | 5 | 1000 Vdc | | | | | |
| 5.000 | MMWA2W5K-F | 0.669 (17.0) | 1.750 (44.4) | 0.040 (1.0) | 5 | 0.010 | MMWA10S1K-F | 0.240 (6.1) | 0.875 (22.2) | 0.020 (0.5) | 220 |
| 6.000 | MMWA2W6K-F | 0.705 (17.9) | 1.750 (44.4) | 0.040 (1.0) | 5 | 0.015 | MMWA10S15K-F | 0.275 (7.0) | 0.875 (22.2) | 0.024 (0.6) | 220 |
| 400 Vdc | | | | | | 0.022 | MMWA10S22K-F | 0.320 (8.1) | 0.875 (22.2) | 0.024 (0.6) | 220 |
| 0.010 | MMWA4S1K-F | 0.217 (5.5) | 0.562 (14.3) | 0.020 (0.5) | 82 | 0.033 | MMWA10S33K-F | 0.380 (9.6) | 0.875 (22.2) | 0.024 (0.6) | 220 |
| 0.015 | MMWA4S15K-F | 0.217 (5.5) | 0.562 (14.3) | 0.020 (0.5) | 82 | 0.047 | MMWA10S47K-F | 0.335 (8.5) | 1.062 (27.0) | 0.024 (0.6) | 120 |
| 0.022 | MMWA4S22K-F | 0.236 (6.0) | 0.562 (14.3) | 0.020 (0.5) | 82 | 0.068 | MMWA10S68K-F | 0.410 (10.4) | 1.125 (28.6) | 0.024 (0.6) | 120 |
| 0.033 | MMWA4S33K-F | 0.220 (5.6) | 0.687 (17.4) | 0.020 (0.5) | 46 | 0.100 | MMWA10P1K-F | 0.485 (12.3) | 1.125 (28.6) | 0.024 (0.6) | 120 |
| 0.047 | MMWA4S47K-F | 0.276 (7.0) | 0.687 (17.4) | 0.020 (0.5) | 46 | 0.150 | MMWA10P15K-F | 0.595 (15.1) | 1.125 (28.6) | 0.032 (0.8) | 120 |
| 0.068 | MMWA4S68K-F | 0.280 (7.1) | 0.687 (17.4) | 0.024 (0.6) | 46 | 0.220 | MMWA10P22K-F | 0.605 (15.4) | 1.312 (33.3) | 0.032 (0.8) | 85 |
| 0.100 | MMWA4P1K-F | 0.320 (8.1) | 0.687 (17.4) | 0.024 (0.6) | 46 | 0.330 | MMWA10P33K-F | 0.640 (16.3) | 1.500 (38.1) | 0.032 (0.8) | 50 |
| 0.150 | MMWA4P15K-F | 0.290 (7.4) | 1.000 (25.4) | 0.024 (0.6) | 22 | 0.470 | MMWA10P47K-F | 0.750 (19.0) | 1.500 (38.1) | 0.040 (1.0) | 50 |
| 0.220 | MMWA4P22K-F | 0.335 (8.5) | 1.000 (25.4) | 0.024 (0.6) | 22 | 0.680 | MMWA10P68K-F | 0.810 (20.6) | 1.750 (44.4) | 0.040 (1.0) | 45 |
| 0.330 | MMWA4P33K-F | 0.394 (10.0) | 1.187 (30.1) | 0.024 (0.6) | 22 | 1.000 | MMWA10W1K-F | 0.880 (22.3) | 1.937 (49.2) | 0.040 (1.0) | 40 |
| 0.470 | MMWA4P47K-F | 0.433 (11.0) | 1.187 (30.1) | 0.024 (0.6) | 22 | | | | | | |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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