



## Metallized Polyester Film Capacitors

*Axial Leaded, General Purpose*

### FEATURES

Small Size - Low ESR - General Purpose

### APPLICATIONS

General Purpose - Bypass - Coupling - Blocking

|   |   |                    |  |            |                              |            |            |                   |             |  |
|---|---|--------------------|--|------------|------------------------------|------------|------------|-------------------|-------------|--|
| <b>Operating Temperature Range</b>  | <b>-40°C to +105°C</b>  |                    |  |            |                              |            |            |                   |             |  |
| <b>Capacitance Tolerance</b>  | ±10% at 1 kHz, 25°C<br>+5% optional   |                    |  |            |                              |            |            |                   |             |  |
| <b>Peak, AC voltage (50/60 Hz)</b>  | <b>WVDC</b>   | <b>50</b>          | <b>63</b>  | <b>100</b> | <b>250</b>                   | <b>400</b> | <b>630</b> | <b>1000</b>       | <b>1500</b> |  |
|   | <b>VAC</b>  | 30                 | 40   | 63         | 160                          | 200        | 220        | 250               | 300         |  |
| For T>+85°C, The voltage must be decreased by 1.25% per °C                            |   |                    |  |            |                              |            |            |                   |             |  |
| <b>Dissipation Factor (MAX)<br/>25°C</b>  | <b>Frequency (kHz)</b>  | <b>C≤0.1uF</b>     |  |            | <b>0.1uF&lt;C≤1.0uF</b>      |            |            | <b>C&gt;1.0uF</b> |             |  |
|   | <b>1</b>  | 0.80%              |  |            | 1.00%                        |            |            | 1.00%             |             |  |
|   | <b>10</b>   | 1.50%              |  |            | 1.50%                        |            |            | -                 |             |  |
|   | <b>100</b>  | 2.50%              |  |            | -                            |            |            | -                 |             |  |
| <b>Insulation Resistance<br/>@25°C (&lt;70% RH)for 1 minute at<br/>100VDC applied</b> | <b>WVDC</b>   | <b>Capacitance</b> |  |            | <b>Insulation Resistance</b> |            |            |                   |             |  |
|   | <b>≤100WVDC</b>   | <b>≤0.33μF</b>     |  |            | 15000 MΩ                     |            |            |                   |             |  |
|   | <b>&gt;100WVDC</b>  | <b>≤0.33μF</b>     |  |            | 30000 MΩ×μF                  |            |            |                   |             |  |
|   | <b>≤100WVDC</b>   | <b>&gt;0.33μF</b>  |  |            | 15000 MΩ×μF                  |            |            |                   |             |  |
| <b>Load Life</b>  | <b>2000 Hours, +85C with 125% of rated voltage</b>                              |                    |  |            |                              |            |            |                   |             |  |
|   | <b>Capacitance Change</b>   |                    | ≤5% of initially measured value  |            |                              |            |            |                   |             |  |
|   | <b>Dissipation Factor</b>   |                    | ≤0.005 at 1kHz and 25°C for C≤1uF<br>≤0.005 at 1kHz and 25°C For C>1uF |            |                              |            |            |                   |             |  |
|   | <b>Insulation Resistance</b>  |                    | >50% of maximum specified value  |            |                              |            |            |                   |             |  |
| <b>Damp Heat test</b>   | <b>56 days at40°C with 93%RH(+/-2%), +40°C and no voltage applied</b>           |                    |  |            |                              |            |            |                   |             |  |
|   | <b>Capacitance Change</b>   |                    | ≤5% of initially measured value  |            |                              |            |            |                   |             |  |
|   | <b>Dissipation Factor</b>   |                    | ≤0.005 at 1kHz and 25°C  |            |                              |            |            |                   |             |  |
|   | <b>Insulation Resistance</b>  |                    | >50% of maximum specified value  |            |                              |            |            |                   |             |  |
| <b>Self Inductance</b>  | <1 nano-Henry per mm of body length and lead length                             |                    |  |            |                              |            |            |                   |             |  |
| <b>Capacitance Drift Factor</b>   | <1.0% after 2 years at 40°C   |                    |  |            |                              |            |            |                   |             |  |
| <b>Capacitance Temperature Coefficient</b>  | +400 ppm/°C, ±200ppm/°C   |                    |  |            |                              |            |            |                   |             |  |
| <b>Dielectric Strength</b>  | <b>Terminal to Terminal</b>   |                    |  |            |                              |            |            |                   |             |  |
|   | 160% of VDC applied for 2 Seconds and 25°C                                      |                    |  |            |                              |            |            |                   |             |  |
| <b>Dielectric Construction</b>  | Polyester   |                    |  |            |                              |            |            |                   |             |  |
| <b>Construction</b>   | Metallized film Internal series connected (≥1000WVDC)                           |                    |  |            |                              |            |            |                   |             |  |
| <b>Coating</b>  | Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0) |                    |  |            |                              |            |            |                   |             |  |
| <b>Leads</b>  | Lead free tinned copper leads   |                    |  |            |                              |            |            |                   |             |  |



| Lead Diameter |     |
|---------------|-----|
| D             | d   |
| ≤9            | 0.6 |
| 9<D≤20        | 0.8 |
| >20           | 1.0 |

# MWR

## Metallized Polyester Axial Lead

| WVDC | Capacitance (µF) | IC PART NUMBER | dv/dt (v/µ sec.) | Dims DxL (mm) | d (MM) |
|------|------------------|----------------|------------------|---------------|--------|
| 50   | 0.22             | 224MWR050K     | 9                | 6x11.5        | 0.6    |
| 50   | 0.33             | 334MWR050K     | 9                | 6x11.5        | 0.6    |
| 50   | 0.47             | 474MWR050K     | 9                | 6x11.5        | 0.6    |
| 50   | 0.68             | 684MWR050K     | 9                | 6x11.5        | 0.6    |
| 50   | 1                | 105MWR050K     | 9                | 7.5x11.5      | 0.6    |
| 50   | 1.5              | 155MWR050K     | 9                | 8x14.5        | 0.6    |
| 50   | 2.2              | 225MWR050K     | 9                | 9x14.5        | 0.8    |
| 50   | 3.3              | 335MWR050K     | 6                | 10x20.5       | 0.8    |
| 50   | 4.7              | 475MWR050K     | 6                | 10.5x20.5     | 0.8    |
| 50   | 6.8              | 685MWR050K     | 6                | 11.5x20.5     | 0.8    |
| 50   | 10               | 106MWR050K     | 6                | 13.5x20.5     | 0.8    |
| 63   | 0.15             | 154MWR063K     | 11               | 5.5x14        | 0.6    |
| 63   | 0.68             | 684MWR063K     | 7                | 6.5x19        | 0.6    |
| 63   | 1                | 105MWR063K     | 7                | 8x20.5        | 0.6    |
| 63   | 1.5              | 155MWR063K     | 7                | 9.5x20.5      | 0.8    |
| 63   | 2.2              | 225MWR063K     | 5                | 10.5x29       | 0.8    |
| 63   | 3.3              | 335MWR063K     | 5                | 11x29         | 0.8    |
| 63   | 4.7              | 475MWR063K     | 5                | 12.5x29       | 0.8    |
| 63   | 10               | 106MWR063K     | 4                | 14x34         | 0.8    |
| 100  | 0.068            | 683MWR100K     | 6                | 5.5x11.5      | 0.6    |
| 100  | 0.1              | 104MWR100K     | 6                | 6x11.5        | 0.6    |
| 100  | 0.15             | 154MWR100K     | 6                | 6x14          | 0.6    |
| 100  | 0.22             | 224MWR100K     | 6                | 6.5x14        | 0.6    |
| 100  | 0.33             | 334MWR100K     | 6                | 7.5x14        | 0.6    |
| 100  | 0.47             | 474MWR100K     | 6                | 7x15.5        | 0.6    |
| 100  | 0.68             | 684MWR100K     | 3                | 8x19          | 0.6    |
| 100  | 1                | 105MWR100K     | 3                | 9.5x19        | 0.8    |
| 100  | 1.5              | 155MWR100K     | 2                | 9x27          | 0.8    |
| 100  | 2.2              | 225MWR100K     | 2                | 12x29         | 0.8    |
| 100  | 3.3              | 335MWR100K     | 2                | 13x29         | 0.8    |
| 100  | 4.7              | 475MWR100K     | 4                | 12.5x34       | 0.8    |
| 100  | 6.8              | 685MWR100K     | 2                | 17x34         | 0.8    |
| 100  | 10               | 106MWR100K     | 2                | 18x34         | 0.8    |
| 100  | 15               | 156MWR100K     | 2                | 21x34         | 1      |
| 100  | 22               | 226MWR100K     | 2                | 22x46         | 1      |
| 250  | 0.022            | 223MWR250K     | 10               | 5.5x11.5      | 0.6    |
| 250  | 0.033            | 333MWR250K     | 10               | 6x11.5        | 0.6    |
| 250  | 0.039            | 393MWR250K     | 10               | 6x11.5        | 0.6    |
| 250  | 0.047            | 473MWR250K     | 10               | 5.5x14        | 0.6    |
| 250  | 0.068            | 683MWR250K     | 10               | 6.5x14.5      | 0.6    |
| 250  | 0.1              | 104MWR250K     | 10               | 6x14          | 0.6    |
| 250  | 0.15             | 154MWR250K     | 10               | 7x14          | 0.6    |
| 250  | 0.22             | 224MWR250K     | 7                | 7x19          | 0.6    |
| 250  | 0.33             | 334MWR250K     | 7                | 8x19          | 0.6    |
| 250  | 0.47             | 474MWR250K     | 7                | 9.5x19        | 0.8    |
| 250  | 0.68             | 684MWR250K     | 4                | 9.5x27        | 0.8    |
| 250  | 1                | 105MWR250K     | 4                | 10.5x27       | 0.8    |
| 250  | 1.5              | 155MWR250K     | 4                | 12.5x29       | 0.8    |
| 250  | 2.2              | 225MWR250K     | 2                | 13.5x34       | 0.8    |
| 250  | 3.3              | 335MWR250K     | 2                | 16x34         | 0.8    |
| 250  | 4.7              | 475MWR250K     | 2                | 19.5x34       | 0.8    |
| 250  | 6.8              | 685MWR250K     | 5                | 23x34         | 1      |
| 250  | 10               | 106MWR250K     | 2                | 24.5x46.5     | 1      |
| 400  | 0.01             | 103MWR400K     | 14               | 5x11.5        | 0.6    |
| 400  | 0.015            | 153MWR400K     | 14               | 5.5x14.5      | 0.6    |
| 400  | 0.022            | 223MWR400K     | 14               | 5.5x14        | 0.6    |
| 400  | 0.033            | 333MWR400K     | 6                | 6x14          | 0.6    |
| 400  | 0.039            | 393MWR400K     | 14               | 7x15.5        | 0.6    |

| WVDC | Capacitance (µF) | IC PART NUMBER | dv/dt (v/µ sec.) | Dims DxL (mm) | d (MM) |
|------|------------------|----------------|------------------|---------------|--------|
| 400  | 0.047            | 473MWR400K     | 6                | 7x14          | 0.6    |
| 400  | 0.068            | 683MWR400K     | 10               | 7.5x20.5      | 0.6    |
| 400  | 0.1              | 104MWR400K     | 10               | 7.5x19        | 0.6    |
| 400  | 0.15             | 154MWR400K     | 10               | 8.5x19        | 0.6    |
| 400  | 0.22             | 224MWR400K     | 6                | 8.5x27        | 0.8    |
| 400  | 0.33             | 334MWR400K     | 6                | 10x27         | 0.8    |
| 400  | 0.47             | 474MWR400K     | 6                | 12.5x27       | 0.8    |
| 400  | 0.68             | 684MWR400K     | 4                | 12.5x34       | 0.8    |
| 400  | 1                | 105MWR400K     | 4                | 14.5x34       | 0.8    |
| 400  | 1.5              | 155MWR400K     | 4                | 17.5x34       | 0.8    |
| 400  | 2.2              | 225MWR400K     | 2                | 20.5x34       | 0.8    |
| 400  | 3.3              | 335MWR400K     | 2                | 22.5x47       | 1      |
| 630  | 0.001            | 102MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.0015           | 152MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.0022           | 222MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.0033           | 332MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.0039           | 392MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.0047           | 472MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.0068           | 682MWR630K     | 60               | 5.5x11.5      | 0.6    |
| 630  | 0.01             | 103MWR630K     | 20               | 6x14          | 0.6    |
| 630  | 0.015            | 153MWR630K     | 20               | 6.5x14.5      | 0.6    |
| 630  | 0.022            | 223MWR630K     | 20               | 8x14          | 0.6    |
| 630  | 0.033            | 333MWR630K     | 15               | 8x20.5        | 0.6    |
| 630  | 0.039            | 393MWR630K     | 15               | 8x20.5        | 0.6    |
| 630  | 0.047            | 473MWR630K     | 15               | 7.5x19        | 0.6    |
| 630  | 0.068            | 683MWR630K     | 15               | 9x20.5        | 0.8    |
| 630  | 0.1              | 104MWR630K     | 10               | 9x27          | 0.8    |
| 630  | 0.15             | 154MWR630K     | 10               | 10.5x29       | 0.8    |
| 630  | 0.22             | 224MWR630K     | 10               | 12.5x27       | 0.8    |
| 630  | 0.33             | 334MWR630K     | 6                | 13.5x34       | 0.8    |
| 630  | 0.47             | 474MWR630K     | 6                | 15x34         | 0.8    |
| 630  | 0.68             | 684MWR630K     | 6                | 18.5x34       | 0.8    |
| 630  | 1                | 105MWR630K     | 6                | 22x34         | 1      |
| 630  | 1.5              | 155MWR630K     | 6                | 26.5x34       | 1      |
| 1000 | 0.01             | 103MWR102K     | 80               | 7x14.5        | 0.6    |
| 1000 | 0.015            | 153MWR102K     | 80               | 8x14.5        | 0.6    |
| 1000 | 0.022            | 223MWR102K     | 40               | 9.5x20.5      | 0.8    |
| 1000 | 0.033            | 333MWR102K     | 40               | 10.5x20.5     | 0.8    |
| 1000 | 0.047            | 473MWR102K     | 33               | 11x29         | 0.8    |
| 1000 | 0.068            | 683MWR102K     | 33               | 12.5x29       | 0.8    |
| 1000 | 0.1              | 104MWR102K     | 33               | 12x29         | 0.8    |
| 1000 | 0.15             | 154MWR102K     | 20               | 13x34         | 0.8    |
| 1000 | 0.22             | 224MWR102K     | 20               | 14.5x34       | 0.8    |
| 1000 | 0.33             | 334MWR102K     | 20               | 17x34         | 0.8    |
| 1000 | 0.47             | 474MWR102K     | 20               | 19.5x34       | 0.8    |
| 1500 | 0.001            | 102MWR152KB    | 90               | 5.5x14.5      | 0.6    |
| 1500 | 0.0015           | 152MWR152KB    | 90               | 5.5x14.5      | 0.6    |
| 1500 | 0.0022           | 222MWR152KB    | 90               | 6x14.5        | 0.6    |
| 1500 | 0.0033           | 332MWR152KB    | 90               | 6.5x14.5      | 0.6    |
| 1500 | 0.0047           | 472MWR152KB    | 90               | 7x14.5        | 0.6    |
| 1500 | 0.0068           | 682MWR152KB    | 90               | 8x14.5        | 0.6    |
| 1500 | 0.01             | 103MWR152KB    | 90               | 8.5x14.5      | 0.8    |
| 1500 | 0.015            | 153MWR152KD    | 50               | 8.5x20.5      | 0.8    |
| 1500 | 0.022            | 223MWR152KD    | 50               | 9.5x20.5      | 0.8    |
| 1500 | 0.033            | 333MWR152KD    | 50               | 11x20.5       | 0.8    |
| 1500 | 0.047            | 473MWR152KG    | 40               | 11x29         | 0.8    |
| 1500 | 0.068            | 683MWR152KG    | 40               | 12.5x29       | 0.8    |
| 1500 | 0.1              | 104MWR152KJ    | 25               | 13x34         | 0.8    |

# MWR

## Metallized Polyester Axial Lead

| WVDC | Capacitance (μF) | IC PART NUMBER     | dv/dt (v/μ sec.) | Dims DxL (mm) | d (MM) |
|------|------------------|--------------------|------------------|---------------|--------|
| 1500 | 0.15             | <b>154MWR152KJ</b> | 25               | 15x34         | 0.8    |
| 1500 | 0.22             | <b>224MWR152KJ</b> | 25               | 17.5x34       | 0.8    |
| 1500 | 0.33             | <b>334MWR152KJ</b> | 25               | 20.5x34       | 1      |
| 1500 | 0.47             | <b>474MWR152KJ</b> | 25               | 24x34         | 1      |

| WVDC | Capacitance (μF) | IC PART NUMBER     | dv/dt (v/μ sec.) | Dims DxL (mm) | d (MM) |
|------|------------------|--------------------|------------------|---------------|--------|
| 1500 | 0.68             | <b>684MWR152KN</b> | 25               | 24.5x46.5     | 1      |
| 1500 | 1                | <b>105MWR152KN</b> | 25               | 28.5x46.5     | 1      |
| 1500 | 1.5              | <b>155MWR152KN</b> | 25               | 34x46.5       | 1      |



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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