

## Metallized Polyester Film Capacitors

*Axial Leaded, General Purpose*

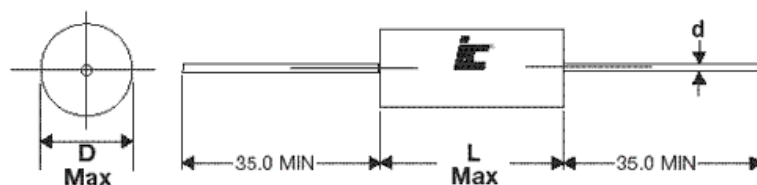
### FEATURES

Small Size - Low ESR - General Purpose

### APPLICATIONS

General Purpose - Bypass - Coupling - Blocking

|                                                                           |                                                                                 |    |             |     |                                                                        |     |         |      |      |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------|----|-------------|-----|------------------------------------------------------------------------|-----|---------|------|------|
| Operating Temperature Range                                               | <b>-40°C to +105°C</b>                                                          |    |             |     |                                                                        |     |         |      |      |
| Capacitance Tolerance                                                     | ±10% at 1 kHz, 25°C<br>+5% optional                                             |    |             |     |                                                                        |     |         |      |      |
| Peak, AC voltage (50/60 Hz)                                               | WVDC                                                                            | 50 | 63          | 100 | 250                                                                    | 400 | 630     | 1000 | 1500 |
|                                                                           | VAC                                                                             | 30 | 40          | 63  | 160                                                                    | 200 | 220     | 250  | 300  |
|                                                                           | For T>+85°C , The voltage must be decreased by 1.25% per °C                     |    |             |     |                                                                        |     |         |      |      |
| Dissipation Factor (MAX)<br>25°C                                          | Frequency (kHz)                                                                 |    | C≤0.1uF     |     | 0.1uF<C≤1.0uF                                                          |     | C>1.0uF |      |      |
|                                                                           | 1                                                                               |    | 0.80%       |     | 1.00%                                                                  |     | 1.00%   |      |      |
|                                                                           | 10                                                                              |    | 1.50%       |     | 1.50%                                                                  |     | -       |      |      |
|                                                                           | 100                                                                             |    | 2.50%       |     | -                                                                      |     | -       |      |      |
| Insulation Resistance<br>@25°C (<70% RH)for 1 minute at<br>100VDC applied | WVDC                                                                            |    | Capacitance |     | Insulation Resistance                                                  |     |         |      |      |
|                                                                           | ≤100WVDC                                                                        |    | ≤0.33μF     |     | 15000 MΩ                                                               |     |         |      |      |
|                                                                           | >100WVDC                                                                        |    | ≤0.33μF     |     | 30000 MΩxμF                                                            |     |         |      |      |
|                                                                           | ≤100WVDC                                                                        |    | >0.33μF     |     | 15000 MΩxμF                                                            |     |         |      |      |
|                                                                           | >100WVDC                                                                        |    | >0.33μF     |     | 10000 MΩxμF                                                            |     |         |      |      |
| Load Life                                                                 | 2000 Hours, +85C with 125% of rated voltage                                     |    |             |     |                                                                        |     |         |      |      |
|                                                                           | Capacitance Change                                                              |    |             |     | ≤5% of initially measured value                                        |     |         |      |      |
|                                                                           | Dissipation Factor                                                              |    |             |     | ≤0.005 at 1kHz and 25°C for C≤1uF<br>≤0.005 at 1kHz and 25°C For C>1uF |     |         |      |      |
|                                                                           | Insulation Resistance                                                           |    |             |     | ≥50% of maximum specified value                                        |     |         |      |      |
| Damp Heat test                                                            | 56 days at40°C with 93%RH(+/-2%), +40°C and no voltage applied                  |    |             |     |                                                                        |     |         |      |      |
|                                                                           | Capacitance Change                                                              |    |             |     | ≤5% of initially measured value                                        |     |         |      |      |
|                                                                           | Dissipation Factor                                                              |    |             |     | <0.005 at 1kHz and 25°C                                                |     |         |      |      |
|                                                                           | Insulation Resistance                                                           |    |             |     | ≥50% of maximum specified value                                        |     |         |      |      |
| Self Inductance                                                           | <1 nano-Henry per mm of body length and lead length                             |    |             |     |                                                                        |     |         |      |      |
| Capacitance Drift Factor                                                  | <1.0% after 2 years at 40°C                                                     |    |             |     |                                                                        |     |         |      |      |
| Capacitance Temperature Coefficient                                       | +400 ppm/°C, ±200ppm/°C                                                         |    |             |     |                                                                        |     |         |      |      |
| Dielectric Strength                                                       | Terminal to Terminal                                                            |    |             |     |                                                                        |     |         |      |      |
|                                                                           | 160% of VDC applied for 2 Seconds and 25°C                                      |    |             |     |                                                                        |     |         |      |      |
| Dielectric                                                                | Polyester                                                                       |    |             |     |                                                                        |     |         |      |      |
| Construction                                                              | Metallized film Internal series connected (>1000WVDC)                           |    |             |     |                                                                        |     |         |      |      |
| Coating                                                                   | Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0) |    |             |     |                                                                        |     |         |      |      |
| Leads                                                                     | 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      |

## 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

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9