



Metallized Polyester Film Capacitors

For High Voltage Applications

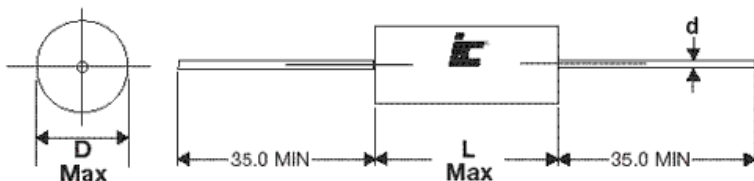
FEATURES

High Voltage

APPLICATIONS

Voltage Multipliers - Medical Equipment

| | | | | | |
|--|---|---------------------------------|-------------|----------------------------|--------------|
| Operating Temperature Range | -40°C to +105°C | | | | |
| Capacitance Tolerance | ±10% at 1 kHz, 25°C +5% optional | | | | |
| Peak, AC voltage (50/60 Hz) | WVDC | 2500 | 4000 | 6300 | 10000 |
| | VAC | 500 | 750 | 1000 | 1200 |
| For T>+85°C, The voltage must be decreased by 1.25% per °C | | | | | |
| Dissipation Factor (MAX) 25°C | Frequency (kHz) | C<0.1uF | | 0.1uF<C<1.0uF | |
| | 1 | 0.8% | | 0.8% | |
| | 10 | 1.5% | | 1.5% | |
| | 100 | 3.0% | | - | |
| Insulation Resistance @25°C (<70% RH) for 1 minute at 100VDC applied | Insulation Resistance | | | | |
| | 15000 MΩ | | | | |
| Load Life | 2000 Hours, +85°C with 125% of rated voltage | | | | |
| | Capacitance Change | ≤5% of initially measured value | | | |
| | Dissipation Factor | <0.00 at 1kHz and 25°C | | | |
| | Insulation Resistance | ≥50% of maximum specified value | | | |
| Damp Heat test | 56 days at 40°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 | | | | |
| Coating | Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0) | | | | |
| Leads | Lead free tinned copper leads | | | | |



| Lead Diameter | |
|---------------|-----|
| D | d |
| ≤8 | 0.6 |
| 8<D≤22 | 0.8 |
| >22 | 1.0 |

MWS

Metallized Polyester Axial
Lead, up to 10 kVDC

| Capacitance (μF) | WVDC | IC PART NUMBER | dv/dt (v/μ sec.) | Dims DxL (mm) | d (MM) |
|------------------|-------|-----------------------------|------------------|---------------|--------|
| 0.0015 | 4000 | 152MWS402KG | 550 | 8.5x29 | 0.6 |
| 0.0015 | 6300 | 152MWS632KL | 800 | 11x38 | 0.8 |
| 0.0015 | 10000 | 152MWS103KT | 1200 | 15.5x63 | 0.8 |
| 0.0022 | 4000 | 222MWS402KG | 550 | 9.5x29 | 0.8 |
| 0.0022 | 6300 | 222MWS632KL | 800 | 13x38 | 0.8 |
| 0.0022 | 10000 | 222MWS103KT | 1200 | 17.5x63 | 0.8 |
| 0.0033 | 4000 | 332MWS402KG | 550 | 11x29 | 0.8 |
| 0.0033 | 6300 | 332MWS632KL | 800 | 15x38 | 0.8 |
| 0.0033 | 10000 | 332MWS103KT | 1200 | 22x63 | 1 |
| 0.0047 | 2500 | 472MWS252KG | 200 | 8.5x29 | 0.6 |
| 0.0047 | 4000 | 472MWS402KG | 550 | 12.5x29 | 0.8 |
| 0.0047 | 6300 | 472MWS632KL | 800 | 17x38 | 0.8 |
| 0.0047 | 10000 | 472MWS103KT | 1200 | 25x63 | 1 |
| 0.0068 | 2500 | 682MWS252KG | 200 | 9.5x29 | 0.8 |
| 0.0068 | 4000 | 682MWS402KG | 550 | 14.5x29 | 0.8 |
| 0.0068 | 6300 | 682MWS632KO | 400 | 15.5x49.5 | 0.8 |
| 0.0068 | 10000 | 682MWS103KT | 1200 | 28.5x63 | 1 |
| 0.01 | 4000 | 103MWS402KG | 550 | 17x29 | 0.8 |
| 0.01 | 6300 | 103MWS632KO | 400 | 18x49.5 | 0.8 |
| 0.01 | 10000 | 103MWS103KT | 1200 | 33x63 | 1 |
| 0.015 | 2500 | 153MWS252KG | 200 | 13x29 | 0.8 |

| Capacitance (μF) | WVDC | IC PART NUMBER | dv/dt (v/μ sec.) | Dims DxL (mm) | d (MM) |
|------------------|-------|-----------------------------|------------------|---------------|--------|
| 0.015 | 4000 | 153MWS402KJ | 300 | 15x34 | 0.8 |
| 0.015 | 6300 | 153MWS632KO | 400 | 21.5x49.5 | 0.8 |
| 0.015 | 10000 | 153MWS103KT | 1200 | 39x63 | 1 |
| 0.022 | 2500 | 223MWS252KG | 200 | 14.5x29 | 0.8 |
| 0.022 | 4000 | 223MWS402KJ | 300 | 18.5x34 | 0.8 |
| 0.022 | 6300 | 223MWS632KO | 400 | 25.5x49.5 | 1 |
| 0.033 | 2500 | 333MWS252KJ | 125 | 14.5x34 | 0.8 |
| 0.033 | 4000 | 333MWS402KJ | 300 | 22x34 | 0.8 |
| 0.033 | 6300 | 333MWS632KO | 400 | 30x49.5 | 1 |
| 0.047 | 2500 | 473MWS252KJ | 125 | 17x34 | 0.8 |
| 0.047 | 4000 | 473MWS402KN | 175 | 20x46.5 | 0.8 |
| 0.047 | 6300 | 473MWS632KO | 400 | 36x49.5 | 1 |
| 0.068 | 2500 | 683MWS252KJ | 125 | 20x34 | 0.8 |
| 0.068 | 4000 | 683MWS402KN | 175 | 23x46.5 | 1 |
| 0.1 | 2500 | 104MWS252KO | 70 | 18.5x49.5 | 0.8 |
| 0.1 | 4000 | 104MWS402KN | 170 | 27.5x46.5 | 1 |
| 0.15 | 2500 | 154MWS252KO | 70 | 21.5x49.5 | 0.8 |
| 0.15 | 4000 | 154MWS402KN | 170 | 33.5x46.5 | 1 |
| 0.22 | 2500 | 224MWS252KO | 70 | 25.5x49.5 | 1 |
| 0.33 | 2500 | 334MWS252KO | 70 | 31x49.5 | 1 |
| 0.47 | 2500 | 474MWS252KO | 70 | 37x49.5 | 1 |