



## Metallized Polyester Film Capacitors

For High Voltage Applications

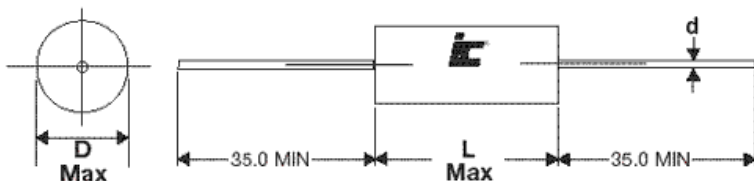
### FEATURES

High Voltage

### APPLICATIONS

Voltage Multipliers - Medical Equipment

<b>Operating Temperature Range</b>	<b>-40°C to +105°C</b>				
<b>Capacitance Tolerance</b>	±10% at 1 kHz, 25°C +5% optional				
<b>Peak, AC voltage (50/60 Hz)</b>	<b>WVDC</b>	<b>2500</b>	<b>4000</b>	<b>6300</b>	<b>10000</b>
	<b>VAC</b>	500	750	1000	1200
For T>+85°C, The voltage must be decreased by 1.25% per °C					
<b>Dissipation Factor (MAX) 25°C</b>	<b>Frequency (kHz)</b>	<b>C&lt;0.1uF</b>		<b>0.1uF&lt;C&lt;1.0uF</b>	
	<b>1</b>	0.8%		0.8%	
	<b>10</b>	1.5%		1.5%	
	<b>100</b>	3.0%		-	
<b>Insulation Resistance @25°C (&lt;70% RH) for 1 minute at 100VDC applied</b>	<b>Insulation Resistance</b>				
	15000 MΩ				
<b>Load Life</b>	<b>2000 Hours, +85°C with 125% of rated voltage</b>				
	<b>Capacitance Change</b>	≤5% of initially measured value			
	<b>Dissipation Factor</b>	<0.00 at 1kHz and 25°C			
	<b>Insulation Resistance</b>	≥50% of maximum specified value			
<b>Damp Heat test</b>	<b>56 days at 40°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</b>	Polyester				
<b>Construction</b>	Metallized film Internal series connected				
<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
≤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	<a href="#">152MWS402KG</a>	550	8.5x29	0.6
0.0015	6300	<a href="#">152MWS632KL</a>	800	11x38	0.8
0.0015	10000	<a href="#">152MWS103KT</a>	1200	15.5x63	0.8
0.0022	4000	<a href="#">222MWS402KG</a>	550	9.5x29	0.8
0.0022	6300	<a href="#">222MWS632KL</a>	800	13x38	0.8
0.0022	10000	<a href="#">222MWS103KT</a>	1200	17.5x63	0.8
0.0033	4000	<a href="#">332MWS402KG</a>	550	11x29	0.8
0.0033	6300	<a href="#">332MWS632KL</a>	800	15x38	0.8
0.0033	10000	<a href="#">332MWS103KT</a>	1200	22x63	1
0.0047	2500	<a href="#">472MWS252KG</a>	200	8.5x29	0.6
0.0047	4000	<a href="#">472MWS402KG</a>	550	12.5x29	0.8
0.0047	6300	<a href="#">472MWS632KL</a>	800	17x38	0.8
0.0047	10000	<a href="#">472MWS103KT</a>	1200	25x63	1
0.0068	2500	<a href="#">682MWS252KG</a>	200	9.5x29	0.8
0.0068	4000	<a href="#">682MWS402KG</a>	550	14.5x29	0.8
0.0068	6300	<a href="#">682MWS632KO</a>	400	15.5x49.5	0.8
0.0068	10000	<a href="#">682MWS103KT</a>	1200	28.5x63	1
0.01	4000	<a href="#">103MWS402KG</a>	550	17x29	0.8
0.01	6300	<a href="#">103MWS632KO</a>	400	18x49.5	0.8
0.01	10000	<a href="#">103MWS103KT</a>	1200	33x63	1
0.015	2500	<a href="#">153MWS252KG</a>	200	13x29	0.8

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