



Metallized Polyester Film Capacitors

For High Voltage Applications

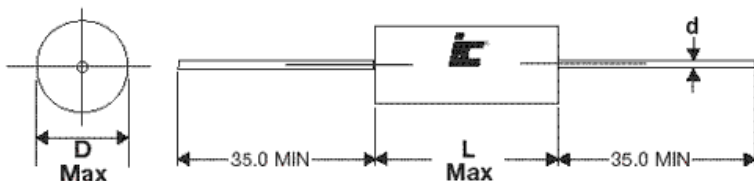
FEATURES

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