

MWS

Metallized Polyester Film Capacitors for High Voltage Applications



- High Voltage
- Voltage Multipliers

Operating Temperature Range		-55°C to +105°C				
Capacitance Tolerance		+/- 10% at 1kHz, 20°C				
Rated Voltage	VDC	2500	4000	6300	10000	
	VAC	500	750	1000	1200	
		For T>85°C the rated voltage must be decreased by 1.25% per °C				
Dissipation Factor (max) at 20°C.		Freq (kHz)		C<0.1µF		C>0.1µF
		1		0.8%		0.8%
		10		1.5%		1.5%
		100		3.0%		
Insulation Resistance @20°C(<70% RH) for 1 minute at 100VDC		≥100,000MΩ				
Load Life Test		2000 hours at 125% of rated voltage and at 85°C				
		Capacitance change			≤5% change from initial value.	
		Dissipation Factor			≤0.003 at 10kHz and 25°C	
		Insulation Resistance			≥50% of minimum specification	
Damp Heat Test		56 days at +40°C+/-2°C with 93%+/-2% relative humidity				
		Capacitance change			≤5% change from initial value.	
		Dissipation Factor			≤0.005 at 1kHz and 25°C	
		Insulation Resistance			≥50% of minimum specification	
Self inductance		<1nH/mm of body length and lead wire length.				
Capacitance drift		<1.0% up to 40°C after 2 years				
Temperature Coefficient		+400ppm/°C +/- 200ppm/°C				
Dielectric		Polyester				
Electrodes		Vacuum deposited metal layers				
Construction		Extended metallized carrier film, internal series connections.				
Leads		Tinned copper wire				
Coating		Flame retardant polyester tape wrap (UL510) with epoxy end seals (UL94V-0)				

MWS

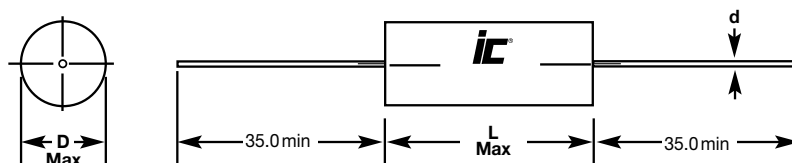
Metallized Polyester
Film Capacitors for
High Voltage
Applications

PHYSICAL DIMENSIONS

WVDC (VAC) μF	2500 (500)	4000 (750)	6300 (1000)	10000 (1200)
0.0015	→	8.5x29	11x40.5	15.5x63
0.0022	→	9.5x29	13x40.5	17.5x63
0.0033	→	11x29	15x40.5	22x63
0.0047	8.5x29	12.5x29	17x40.5	25x63
0.0068	9.5x29	14.5x29	15.5x49.5	28.5x63
0.01	11x29	17x29	18x49.5	33x63
0.015	13x29	15x34	21.5x49.5	39x63
0.022	14.5x29	18.5x34	25.5x49.5	
0.033	14.5x34	22x34	30x49.5	
0.047	17x34	20x46.5	36x49.5	
0.068	20x34	23x46.5		
0.1	18.5x49.5	27.5x46.5		
0.15	21.5x49.5	33.5x46.5		
0.22	25.5x49.5			
0.33	31x49.5			
0.47	37x49.5			

Convert to inches, divide by 25.4

DxL(mm)



Lead Diameter	
D	d
< 8.0	0.6
8 ≤ D ≤ 22	0.8
> 22	1.0

MWS

Metallized Polyester
Film Capacitors for
High Voltage
Applications

STANDARD PART LISTING

Capacitance (μ F)	WVDC	ic ® PART NUMBER	dv/dt (V/ μ s)	Dimension DxL (mm)
0.0015	4000	152MWS402KG	550	8.5x29
0.0015	6300	152MWS632KL	800	11x40.5
0.0015	10000	152MWS103KT	1200	15.5x63
0.0022	4000	222MWS402KG	550	9.5x29
0.0022	6300	222MWS632KL	800	13x40.5
0.0022	10000	222MWS103KT	1200	17.5x63
0.0033	4000	332MWS402KG	550	11x29
0.0033	6300	332MWS632KL	800	15x40.5
0.0033	10000	332MWS103KT	1200	22x63
0.0047	2500	472MWS252KG	200	8.5x29
0.0047	4000	472MWS402KG	550	12.5x29
0.0047	6300	472MWS632KL	800	17x40.5
0.0047	10000	472MWS103KT	1200	25x63
0.0068	2500	682MWS252KG	200	9.5x29
0.0068	4000	682MWS402KG	550	14.5x29
0.0068	6300	682MWS632KO	400	15.5x49.5
0.0068	10000	682MWS103KT	1200	28.5x63
0.01	2500	103MWS252KG	200	11x29
0.01	4000	103MWS402KG	550	17x29
0.01	6300	103MWS632KO	400	18x49.5
0.01	10000	103MWS103KT	1200	33x63
0.015	2500	153MWS252KG	200	13x29

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

This datasheet has been downloaded from:

www.EEworld.com.cn

Free Download

Daily Updated Database

100% Free Datasheet Search Site

100% Free IC Replacement Search Site

Convenient Electronic Dictionary

Fast Search System

www.EEworld.com.cn