PWS

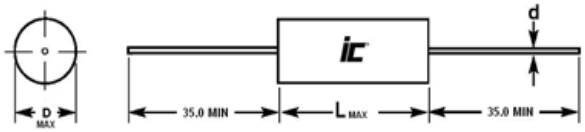
Polypropylene Film Capacitors

Axial Leaded with Aluminum Foil Electrodes

FEATURES	Low ESR - High Current – High Pulse Current Ratings
APPLICATIONS	Power Semiconductor Circuits – SCR Commutation – Deflection Circuits – Switching Power Supplies

Operating Temperature Range	**-55°C to +105°C**					
Capacitance Tolerance	±10% at 1 kHz, 25°C ±5% optional					
AC voltage (50/60 Hz)	**WVDC**	**630**	**1000**	**1500**	**2000**	
	VAC	300	400	450	500	
	For T>+85°C, The voltage (DC/AC) must be decreased by 1.5% per °C					
Dissipation Factor (MAX) 25°C	**Frequency (kHz)**	**C≤0.001uF**	**.001<C≤0.1uF**	**C>0.1uF**		
	10	-	0.05%	0.1%		
	100	.01%	-	-		
Insulation Resistance @25°C (<70% RH) for 1 minute at 100VDC applied	**Capacitance**	**Insulation Resistance**				
	≤0.1µF	100000 MΩ				
	>0.1µF	30000 MΩxµF				
Self Inductance	<1 nano-Henry per mm of lead spacing					
Capacitance Drift Factor	<0.5% after 2 years at 40°C					
Load Life	**1000 Hours, +85C with 150% of rated voltage**					
	Capacitance Change	≤1% of initially measured value				
	Dissipation Factor	≤0.0005 at 10kHz and 25°C for C≤0.1uF ≤0.001 at 1kHz and 25°C for C>0.1uF				
	Insulation Resistance	≥50% of maximum specified value				
Reliability (0.5xRated Voltage, 40°C) 1 FIT=1 failure/1 billion component hours	1 Fit					
	Capacitance Change	≤10% of initially measured value				
	Dissipation Factor	≤200% of initially specified value				
	Insulation Resistance	≥50% of maximum specified value				
Damp Heat test	**56 days at40°C with 90 to 95%RH, +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 lead length					
Capacitance Drift Factor	<0.5% after 2 years at 40°C					
Capacitance Temperature Coefficient	-200 ppm/°C, ±100ppm/°C					
Dielectric Strength	**Terminal to Terminal**					
	200% of rated VDC applied for 2 Seconds and 25°C					
Dielectric	Polypropylene					
Construction	Aluminum foil with internal series connection and metalized film					
Coating	Flame Retardant polyester tape wrap (UL 510) with epoxy resin end fill (UL94V0)					
Leads	Lead free tinned copper leads					

WVDC	630		1000		1500		2000	
Capacitance	C≤.22	C>0.22	C≤.1	C>0.1	C≤.047	C>0.047	C≤.033	C>0.033
d ±0.05	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0



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Axial Lead Metallized Film with Foil Electrodes, Polypropylene Capacitors

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)
630	0.015	153PWS630KD	4300	8.5x20.5
630	0.022	223PWS630KD	4300	9.5x20.5
630	0.033	333PWS630KD	4300	11.5x20.5
630	0.033	333PWS630KG	2600	9.5x29
630	0.068	683PWS630KG	2600	12x29
630	0.1	104PWS630KG	2600	14x29
630	0.15	154PWS630KG	2600	17x29
630	0.15	154PWS630KJ	1800	14.5x34
630	0.22	224PWS630KJ	1800	17x34
630	0.33	334PWS630KJ	1800	20x34
630	0.47	474PWS630KJ	1800	24x34
630	0.56	564PWS630KJ	1800	27x34
1000	0.0033	332PWS102KD	14000	8.5x20.5
1000	0.0047	472PWS102KD	14000	7x19
1000	0.0068	682PWS102KD	14000	12x21
1000	0.0068	682PWS102KG	5000	8.5x29
1000	0.01	103PWS102KG	5000	9x29
1000	0.015	153PWS102KG	5000	10.5x29
1000	0.022	223PWS102K	5000	12x29
1000	0.033	333PWS102KG	5000	14x29
1000	0.047	473PWS102KG	5000	17x29
1000	0.047	473PWS102KJ	3700	14.5x34
1000	0.068	683PWS102KJ	3700	17x34
1000	0.1	104PWS102KJ	3700	19.5x34
1000	0.15	154PWS102KJ	3700	23.5x34
1000	0.22	224PWS102KJ	3700	28x34

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)
1500	0.0022	222PWS152KD	17000	9x20.5
1500	0.0033	332PWS152KD	17000	10x20.5
1500	0.0047	472PWS152KD	17000	12x20.5
1500	0.0047	472PWS152KG	6000	9x29
1500	0.0068	682PWS152KG	6000	9.5x29
1500	0.01	103PWS152KG	6000	10.5x29
1500	0.015	153PWS152KG	6000	12.5x29
1500	0.022	223PWS152KG	6000	14.5x29
1500	0.033	333PWS152KG	6000	18x29
1500	0.033	333PWS152KJ	4500	15x34
1500	0.047	473PWS152KJ	4500	17.5x34
1500	0.068	683PWS152KJ	4500	20.5x34
1500	0.1	104PWS152KJ	4500	24x34
1500	0.12	124PWS152KJ	4500	27x34
2000	0.001	102PWS202KD	27000	9x20.5
2000	0.0015	152PWS202KD	27000	10x20.5
2000	0.0022	222PWS202KD	27000	12x20.5
2000	0.0033	332PWS202KG	9800	9.5x29
2000	0.0047	472PWS202KG	9800	10.5x29
2000	0.0068	682PWS202KG	9800	12x29
2000	0.01	103PWS202KG	9800	14x29
2000	0.015	153PWS202KG	9800	16.5x29
2000	0.022	223PWS202KJ	7000	16.5x34
2000	0.033	333PWS202KJ	7000	20x34
2000	0.047	473PWS202KJ	7000	22.5x34
2000	0.068	683PWS202KJ	7000	27x34

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