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					

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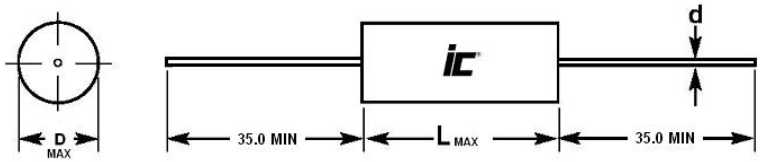
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WVDC	630		1000		1500		2000	
Capacitance	C≤.22	C>0.22	C≤.1	C>0.1	C≤.047	C>0.047	C≤.033	C>0.033
d ±0.05	0.8	1.0	0.8	1.0	0.8	1.0	0.8	1.0

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Axial Lead Metallized film with foil electrodes Polypropylene Capacitors

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)
0.001	2000	102PWS202KD	27000	9x20.5
0.0015	2000	152PWS202KD	27000	10x20.5
0.0022	1500	222PWS152KD	17000	9x20.5
0.0022	2000	222PWS202KD	27000	12x20.5
0.0033	1000	332PWS102KD	14000	8.5x20.5
0.0033	1500	332PWS152KD	17000	10x20.5
0.0033	2000	332PWS202KG	9800	9.5x29
0.0047	1000	472PWS102KD	14000	7x19
0.0047	1500	472PWS152KD	17000	12x20.5
0.0047	1500	472PWS152KG	6000	9x29
0.0047	2000	472PWS202KG	9800	10.5x29
0.0068	1000	682PWS102KD	14000	12x21
0.0068	1000	682PWS102KG	5000	8.5x29
0.0068	1500	682PWS152KG	6000	9.5x29
0.0068	2000	682PWS202KG	9800	12x29
0.01	1000	103PWS102KG	5000	9x29
0.01	1500	103PWS152KG	6000	10.5x29
0.01	2000	103PWS202KG	9800	14x29
0.015	630	153PWS630KD	4300	8.5x20.5
0.015	1000	153PWS102KG	5000	10.5x29
0.015	1500	153PWS152KG	6000	12.5x29
0.015	2000	153PWS202KG	9800	16.5x29
0.022	630	223PWS630KD	4300	9.5x20.5
0.022	1000	223PWS102K	5000	12x29
0.022	1500	223PWS152KG	6000	14.5x29
0.022	2000	223PWS202KJ	7000	16.5x34

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)
0.033	630	333PWS630KD	4300	11.5x20.5
0.033	630	333PWS630KG	2600	9.5x29
0.033	1000	333PWS102KG	5000	14x29
0.033	1500	333PWS152KG	6000	18x29
0.033	1500	333PWS152KJ	4500	15x34
0.033	2000	333PWS202KJ	7000	20x34
0.047	1000	473PWS102KG	5000	17x29
0.047	1000	473PWS102KJ	3700	14.5x34
0.047	1500	473PWS152KJ	4500	17.5x34
0.047	2000	473PWS202KJ	7000	22.5x34
0.068	630	683PWS630KG	2600	12x29
0.068	1000	683PWS102KJ	3700	17x34
0.068	1500	683PWS152KJ	4500	20.5x34
0.068	2000	683PWS202KJ	7000	27x34
0.1	630	104PWS630KG	2600	14x29
0.1	1000	104PWS102KJ	3700	19.5x34
0.1	1500	104PWS152KJ	4500	24x34
0.12	1500	124PWS152KJ	4500	27x34
0.15	630	154PWS630KG	2600	17x29
0.15	630	154PWS630KJ	1800	14.5x34
0.15	1000	154PWS102KJ	3700	23.5x34
0.22	630	224PWS630KJ	1800	17x34
0.22	1000	224PWS102KJ	3700	28x34
0.33	630	334PWS630KJ	1800	20x34
0.47	630	474PWS630KJ	1800	24x34
0.56	630	564PWS630KJ	1800	27x34

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