MPW

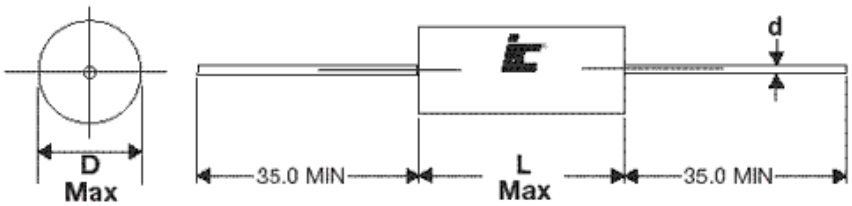
Metallized Polypropylene Film Capacitors

Axial Leaded



FEATURES	Low ESR - High AC/Ripple Current - Stable with frequency and temperature
APPLICATIONS	Switching Power Supplies – General Purpose – AC Applications (Not across the Line)

Operating Temperature Range	**-55°C to +105°C**					
Capacitance Tolerance	±10% at 1 kHz, 25°C ±5% optional					
AC Voltage	**WVDC**	**160**	**250**	**400**	**630**	
	VAC	90	200	220	250	
	For T>+85°C , The voltage must be decreased by 1.5% per °C					
Dissipation Factor (MAX) 1 kHz, 25°C	**0.001**					
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	**Capacitance**	**Insulation Resistance**				
	≤0.33µF	30000 MΩ				
	>0.33µF	10000 MΩxµF				
Load Life	**2000 Hours, +85C with 125% of rated voltage**					
	Capacitance Change	≤3% of initially measured value				
	Dissipation Factor	≤0.001 at 1kHz and 25°C				
	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 and 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 or VAC applied for 10 Seconds and 25°C					
Dielectric	Polypropylene					
Construction	Metallized film					
Coating	Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0)					
Leads	Lead free tinned copper leads					



Lead Diameter	
D	d
≤9	0.6
>9	0.8

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Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)	d (MM)
0.001	630	102MPW630K	22	6.5x14.5	0.6
0.0015	400	152MPW400K	15	6.5x14.5	0.6
0.0015	630	152MPW630K	22	6.5x14.5	0.6
0.0022	400	222MPW400K	15	5.5x11.5	0.6
0.0022	630	222MPW630K	22	6.5x14.5	0.6
0.0033	400	332MPW400K	15	6.5x14.5	0.6
0.0033	630	332MPW630K	22	6.5x14.5	0.6
0.0047	400	472MPW400K	15	6.5x14.5	0.6
0.0047	630	472MPW630K	22	6x14.5	0.6
0.0068	400	682MPW400K	15	5.5x11.5	0.6
0.0068	630	682MPW630K	22	6x14.5	0.6
0.0082	400	822MPW400K	15	6.5x14.5	0.6
0.0082	630	822MPW630K	22	6x14.5	0.6
0.01	400	103MPW400K	15	6x14.5	0.6
0.01	630	103MPW630K	22	6.5x14.5	0.6
0.015	250	153MPW250K	12	5.5x14.5	0.6
0.015	400	153MPW400K	15	6.5x14.5	0.6
0.015	630	153MPW630K	22	7.5x14.5	0.6
0.022	160	223MPW160K	22	5.5x11.5	0.6
0.022	250	223MPW250K	12	7x14	0.6
0.022	400	223MPW400K	15	7x14.5	0.6
0.022	630	223MPW630K	22	8.5x14.5	0.8
0.033	160	333MPW160K	22	5.5x11.5	0.6
0.033	250	333MPW250K	12	6.5x14.5	0.6
0.033	400	333MPW400K	15	7.5x14.5	0.6
0.033	630	333MPW630K	16	8.5x20.5	0.8
0.047	160	473MPW160K	22	5.5x11.5	0.6
0.047	250	473MPW250K	12	6.5x14.5	0.6
0.047	400	473MPW400K	15	8.5x14.5	0.8
0.047	630	473MPW630K	16	9x20.5	0.8
0.068	160	683MPW160K	22	6.5x14.5	0.6
0.068	250	683MPW250K	12	7.5x14.5	0.6
0.068	400	683MPW400K	12	8.5x20.5	0.8
0.068	630	683MPW630K	12	9x29	0.8
0.1	160	104MPW160K	22	6.5x14.5	0.6
0.1	250	104MPW250K	12	8.5x14.5	0.8
0.1	400	104MPW400K	12	8.5x20.5	0.8
0.1	630	104MPW630K	12	10.5x29	0.8

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)	d (MM)
0.15	160	154MPW160K	22	7.5x14.5	0.6
0.15	250	154MPW250K	8	8x20.5	0.6
0.15	400	154MPW400K	7	9.5x29	0.8
0.15	630	154MPW630K	12	12x29	0.8
0.22	160	224MPW160K	22	8x14.5	0.6
0.22	250	224MPW250K	8	9.5x20.5	0.8
0.22	400	224MPW400K	7	10.5x29	0.8
0.22	630	224MPW630K	7	12.5x34	0.8
0.33	160	334MPW160K	18	8.5x20.5	0.8
0.33	250	334MPW250K	5	10x29	0.8
0.33	400	334MPW400K	7	12.5x29	0.8
0.33	630	334MPW630K	7	15.5x34	0.8
0.47	160	474MPW160K	18	9.5x20.5	0.8
0.47	250	474MPW250K	5	11x29	0.8
0.47	400	474MPW400K	7	14x29	0.8
0.47	630	474MPW630K	7	18x34	0.8
0.68	160	684MPW160K	11	10x29	0.8
0.68	250	684MPW250K	5	12.5x29	0.8
0.68	400	684MPW400K	5	15x34	0.8
0.68	630	684MPW630K	7	22x34	1
1	160	105MPW160K	11	11x29	0.8
1	250	105MPW250K	3	13x34	0.8
1	400	105MPW400K	5	17.5x34	0.8
1.5	160	155MPW160K	11	13x29	0.8
1.5	250	155MPW250K	8	16x34	0.8
1.5	400	155MPW400K	5	20.5x34	1
2.2	160	225MPW160K	8	13.5x34	0.8
2.2	250	225MPW250K	3	19x34	0.8
2.2	400	225MPW400K	3	24x46	1
3.3	160	335MPW160K	8	16x34	0.8
3.3	250	335MPW250K	2	17x47	0.8
3.3	400	335MPW400K	3	26x44	1
4.7	160	475MPW160K	8	18x34	0.8
4.7	250	475MPW250K	2	22.5x47	1
4.7	400	475MPW400K	3	28.5x47	1
6.8	160	685MPW160K	8	18.5x46.5	0.8
10	160	106MPW160K	8	22.5x46.5	1

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