



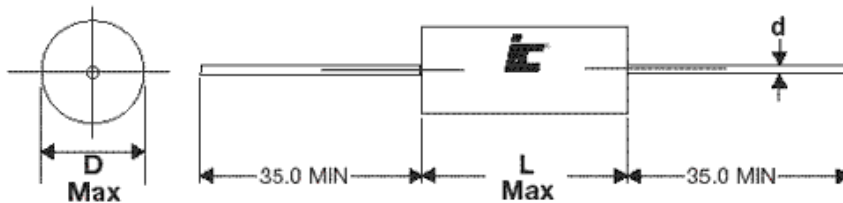
### FEATURES

Low ESR - High AC/Ripple Current - Stable with frequency and temperature

### APPLICATIONS

Switching Power Supplies - General Purpose - AC Applications ( Not across the Line)

<b>Operating Temperature Range</b>	<b>-55°C to +105°C</b>				
<b>Capacitance Tolerance</b>	±10% at 1 kHz, 25°C ±5% optional				
<b>AC Voltage</b>	<b>WVDC</b>	<b>160</b>	<b>250</b>	<b>400</b>	<b>630</b>
	<b>VAC</b>	90	200	220	250
For T>+85°C , The voltage must be decreased by 1.5% per °C					
<b>Dissipation Factor (MAX) 1 kHz, 25°C</b>	<b>0.001</b>				
<b>Insulation Resistance @25°C (&lt;70% RH)for 1 minute at 100VDC applied</b>	<b>Capacitance</b>	<b>Insulation Resistance</b>			
	≤0.33μF	30000 MΩ			
	>0.33μF	10000 MΩxμF			
<b>Load Life</b>	<b>2000 Hours, +85C with 125% of rated voltage</b>				
	<b>Capacitance Change</b>	≤3% of initially measured value			
	<b>Dissipation Factor</b>	≤0.001 at 1kHz and 25°C			
	<b>Insulation Resistance</b>	≥50% of maximum specified value			
<b>Damp Heat test</b>	<b>56 days at40°C with 90 to 95%RH, +40°C and no voltage applied</b>				
	<b>Capacitance Change</b>	≤5% of initially measured value			
	<b>Dissipation Factor</b>	≤0.005 at 1kHz and 25°C			
	<b>Insulation Resistance</b>	≥50% of maximum specified value			
<b>Self Inductance</b>	<1 nano-Henry per mm of body length and lead length				
<b>Capacitance Drift Factor</b>	<0.5% after 2 years at 40°C				
<b>Capacitance Temperature Coefficient</b>	-200 ppm/°C, ±100ppm/°C				
<b>Dielectric Strength</b>	<b>Terminal to Terminal</b>				
	200% of rated VDC or VAC applied for 10 Seconds and 25°C				
<b>Dielectric</b>	Polypropylene				
<b>Construction</b>	Metallized film				
<b>Coating</b>	Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0)				
<b>Leads</b>	Lead free tinned copper leads				



Lead Diameter	
D	d
≤9	0.6
>9	0.8

# MPW

## Metallized Polypropylene Axial Lead

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

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