MPW

Metallized Polypropylene Film Capacitors

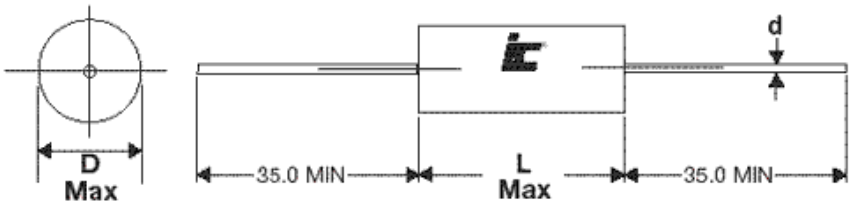
Axial Leaded



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 Leads						

Special Order Options



Lead Diameter	
D	d
≤8	0.6
>8	0.8

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Metallized Polypropylene Axial Lead

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)	d (MM)
160	0.022	223MPW160K	22	5.5x11.5	0.6
160	0.033	333MPW160K	22	5.5x11.5	0.6
160	0.047	473MPW160K	22	5.5x11.5	0.6
160	0.068	683MPW160K	22	6.5x14.5	0.6
160	0.1	104MPW160K	22	6.5x14.5	0.6
160	0.15	154MPW160K	22	7.5x14.5	0.6
160	0.22	224MPW160K	22	8x14.5	0.6
160	0.33	334MPW160K	18	8.5x20.5	0.8
160	0.47	474MPW160K	18	9.5x20.5	0.8
160	0.68	684MPW160K	11	10x29	0.8
160	1	105MPW160K	11	11x29	0.8
160	1.5	155MPW160K	11	13x29	0.8
160	2.2	225MPW160K	8	13.5x34	0.8
160	3.3	335MPW160K	8	16x34	0.8
160	4.7	475MPW160K	8	18x34	0.8
160	6.8	685MPW160K	8	18.5x46.5	0.8
160	10	106MPW160K	8	22.5x46.5	1
250	0.015	153MPW250K	12	5.5x14.5	0.6
250	0.022	223MPW250K	12	7x14	0.6
250	0.033	333MPW250K	12	6.5x14.5	0.6
250	0.047	473MPW250K	12	6.5x14.5	0.6
250	0.068	683MPW250K	12	7.5x14.5	0.6
250	0.1	104MPW250K	12	8.5x14.5	0.8
250	0.15	154MPW250K	8	8x20.5	0.6
250	0.22	224MPW250K	8	9.5x20.5	0.8
250	0.33	334MPW250K	5	10x29	0.8
250	0.47	474MPW250K	5	11x29	0.8
250	0.68	684MPW250K	5	12.5x29	0.8
250	1	105MPW250K	3	13x34	0.8
250	1.5	155MPW250K	8	16x34	0.8
250	2.2	225MPW250K	3	19x34	0.8
250	3.3	335MPW250K	2	17x47	0.8
250	4.7	475MPW250K	2	22.5x47	1
400	0.0015	152MPW400K	15	6.5x14.5	0.6
400	0.0022	222MPW400K	15	5.5x11.5	0.6
400	0.0033	332MPW400K	15	6.5x14.5	0.6
400	0.0047	472MPW400K	15	6.5x14.5	0.6
400	0.0068	682MPW400K	15	5.5x11.5	0.6

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)	d (MM)
400	0.0082	822MPW400K	15	6.5x14.5	0.6
400	0.01	103MPW400K	15	6x14.5	0.6
400	0.015	153MPW400K	15	6.5x14.5	0.6
400	0.022	223MPW400K	15	7x14.5	0.6
400	0.033	333MPW400K	15	7.5x14.5	0.6
400	0.047	473MPW400K	15	8.5x14.5	0.8
400	0.068	683MPW400K	12	8.5x20.5	0.8
400	0.1	104MPW400K	12	8.5x20.5	0.8
400	0.15	154MPW400K	7	9.5x29	0.8
400	0.22	224MPW400K	7	10.5x29	0.8
400	0.33	334MPW400K	7	12.5x29	0.8
400	0.47	474MPW400K	7	14x29	0.8
400	0.68	684MPW400K	5	15x34	0.8
400	1	105MPW400K	5	17.5x34	0.8
400	1.5	155MPW400K	5	20.5x34	1
400	2.2	225MPW400K	3	24x46	1
400	3.3	335MPW400K	3	26x44	1
400	4.7	475MPW400K	3	28.5x47	1
630	0.001	102MPW630K	22	6.5x14.5	0.6
630	0.0015	152MPW630K	22	6.5x14.5	0.6
630	0.0022	222MPW630K	22	6.5x14.5	0.6
630	0.0033	332MPW630K	22	6.5x14.5	0.6
630	0.0047	472MPW630K	22	6x14.5	0.6
630	0.0068	682MPW630K	22	6x14.5	0.6
630	0.0082	822MPW630K	22	6x14.5	0.6
630	0.01	103MPW630K	22	6.5x14.5	0.6
630	0.015	153MPW630K	22	7.5x14.5	0.6
630	0.022	223MPW630K	22	8.5x14.5	0.8
630	0.033	333MPW630K	16	8.5x20.5	0.8
630	0.047	473MPW630K	16	9x20.5	0.8
630	0.068	683MPW630K	12	9x29	0.8
630	0.1	104MPW630K	12	10.5x29	0.8
630	0.15	154MPW630K	12	12x29	0.8
630	0.22	224MPW630K	7	12.5x34	0.8
630	0.33	334MPW630K	7	15.5x34	0.8
630	0.47	474MPW630K	7	18x34	0.8
630	0.68	684MPW630K	7	22x34	1

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