



Polypropylene Film Capacitors

For Snubber, IGBT & Power Semiconductor Power Circuits

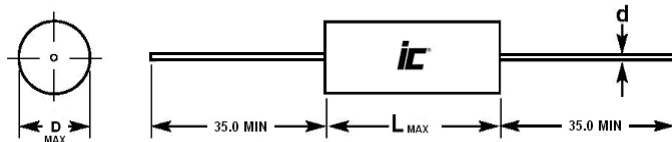
FEATURES

High dvdt - Good Pulse Current -
Stable with Temperature and Frequency

APPLICATIONS

Inverters/Converters - Power Semiconductor Circuits -
Induction Heating - Switching Power Supplies

Operating Temperature Range	-55°C to +85°C										
Capacitance Tolerance	±10% at 1 kHz, 25°C +5% optional										
Surge Voltage(SVDC)	WVDC	700	850	1000	1200	1500	2000	2500	3000		
	SVDC	1000	1200	1400	1600	2000	2400	3000	3500		
AC voltage (50/60 Hz)	WVDC	700	850	1000	1200	1500	2000	2500	3000		
	VAC	420	450	480	500	575	630	700	750		
Dissipation Factor (MAX) 25°C	Frequency (kHz)	C ≤ 0.047µF		0.047 > C ≥ 1µF		C > 1µF					
	1	0.06%		0.05%		0.06%					
Insulation Resistance @25°C (<70% RH) for 1 minute at 100VDC applied	30000 MΩµF (not to exceed 30GΩ)										
Self Inductance	<1 nano-Henry per mm of lead spacing										
Capacitance Drift Factor	<0.5% after 2 years at 40°C										
Life Expectancy	30000 hours @VAC, 70°C 100000 hours @VDC, 70°C										
	Capacitance Change	≤3% of initially measured value									
Failure Quota	300/ billion component hours										
Damp Heat test	56 days at 40°C with 90 to 95%RH, +40°C and no voltage applied										
	Capacitance Change	≤2% of initially measured value									
	Dissipation Factor	≤0.0001 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	<1.0% after 2 years at 40°C										
Capacitance Temperature Coefficient	-200 ppm/°C, ±100ppm/°C										
Dielectric Strength	Terminal to Terminal					Terminal to case					
	160% of rated VDC or 200% VDC applied for 2 Seconds and 25°C					3kVAC, 50/60Hz applied between the leads and case for 60 seconds					
Dielectric Construction	Polypropylene										
Construction	Double Metallized film with internal series connections										
Coating	Flame Retardant polyester tape wrap (UL 501) with epoxy resin end fill(UL94V0)										
Leads	Lead free tinned copper leads										



L MAX	29	34	34	46	46	55	59
D	≤17.5	≤18	>18	≤25	>25	all	all
d±0.05	0.8	0.8	1.0	1.0	1.2	1.2	1.2

PPA



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High Voltage, high dv/dt Axial Lead

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Maximum RMS Ripple Current (A) 100 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims DxL (mm)
0.68	1500	684PPA152K	980	14	3.7	31.5x46
0.68	2000	684PPA202KS	800	14	4.5	31x59
0.68	2000	684PPA202K	875	14	4	32x55
0.68	2500	684PPA252KS	925	14	4.1	38x59
0.68	2500	684PPA252K	1050	14	3.7	40x55
0.82	2500	824PPA252KS	925	14	3.8	41.5x59
1	700	105PPA700KD26	700	12.5	3.2	26x34
1	700	105PPA700K	475	10.5	3.9	21x46
1	850	105PPA850K	600	14	3.3	25x46
1	1000	105PPA102K	680	14	3.2	28x46
1	1200	105PPA122KR	550	14	4	27x55
1	1200	105PPA122KS	350	14	4.5	25.5x59
1	1200	105PPA122K	780	14	3.4	32x46
1	1500	105PPA152KS	625	14	4.2	30.5x59
1	1500	105PPA152K	675	14	3.7	31.5x55
1	1500	105PPA152KD37	980	14	3.2	37x46
1	2000	105PPA202KS	800	14	3.7	37x59
1	2000	105PPA202K	875	14	3.3	39x55
1.2	1200	125PPA122K	550	14	3.4	29.5x55
1.2	1200	125PPA122KS	500	14	3.8	28x59
1.2	1200	125PPA122KD35	780	14	3	34.5x46
1.2	1500	125PPA152K	675	14	3.4	35.5x55
1.2	1500	125PPA152KS	625	14	3.7	33.5x59
1.2	2000	125PPA202KS	800	14	3.4	40.5x59
1.5	700	155PPA700K	475	14	3.3	25.5x46
1.5	850	155PPA850K	600	14	2.8	29.5x46
1.5	1000	155PPA102KS	425	14	3.6	28x59
1.5	1000	155PPA102K	475	14	3.2	29.5x55
1.5	1000	155PPA102KD34	680	14	2.6	33.5x46
1.5	1200	155PPA122KD37	780	14	2.7	37x46
1.5	1200	155PPA122KS	500	14	3.4	31x59
1.5	1200	155PPA122K	550	14	3	33x55
1.5	1500	155PPA152KS	625	14	3.2	37x59
1.5	1500	155PPA152K	675	14	2.9	40x55
2	700	205PPA700KN	475	14	3	29x46
2	850	205PPA850KS	275	14	3.4	28x59
2	850	205PPA850KD34	600	14	2.4	33.5x46
2	850	205PPA850K	425	14	3	29x55
2	1000	205PPA102KR	475	14	2.9	33.5x55
2	1000	205PPA102KS	425	14	3.2	31.5x59
2	1200	205PPA122KR	550	14	2.6	37.5x55
2	1200	205PPA122KS	500	14	2.9	35.5x59
2	1200	205PPA122K	400	12	2.6	39x55

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Maximum RMS Ripple Current (A) 100 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims DxL (mm)
2	1500	205PPA152KS	625	14	2.8	42x59
2.2	700	225PPA700KS	300	14	4.2	25.5x59
2.2	700	225PPA700KD27	350	14	3.8	27x55
2.2	700	225PPA700K	475	14	2.9	30x46
2.2	850	225PPA850K	425	14	2.8	30.5x55
2.2	850	225PPA850KD35	600	14	2.3	35x46
2.2	850	225PPA850KS	375	14	3.2	29.5x59
2.2	1000	225PPA102KS	425	14	3	33x59
2.2	1000	225PPA102K	475	14	2.7	35x55
2.2	1200	225PPA122KS	500	14	2.8	37x59
2.2	1200	225PPA122K	550	14	2.5	39x55
2.5	700	255PPA700KS	300	14	3.9	27.5x59
2.5	700	255PPA700KN	475	14	2.8	32x46
2.5	700	255PPA700KR	350	14	3.5	29x55
2.5	850	255PPA850KN	600	14	2.6	36.5x46
2.5	850	255PPA850KS	375	14	2.5	31x59
2.5	850	255PPA850K	425	14	2.2	32x55
2.5	1200	255PPA122KR	550	14	2.3	41x55
2.5	1200	255PPA122KS	500	14	2.6	39x59
3	700	305PPA700KN	475	14	2.6	35x46
3	700	305PPA700KR	350	14	3.2	31x55
3	700	305PPA700KS	300	14	3.6	29.5x59
3	850	305PPA850KR	425	14	2.5	36x55
3	850	305PPA850KS	375	14	2.8	34x59
3	1000	305PPA102KR	475	14	2.4	40.5x55
3	1000	305PPA102KS	425	14	2.6	38x59
3	1200	305PPA122KS	500	14	2.4	42x59
3.3	700	335PPA700KS	300	14	3.5	30.5x59
3.3	700	335PPA700KD32	350	14	3.1	32x55
3.3	700	335PPA700K	475	14	2.5	36x46
3.3	850	335PPA850K	425	14	2.4	37x55
3.3	850	335PPA850KS	375	14	2.7	35x59
3.3	1000	335PPA102KS	425	14	2.5	40x59
4	700	405PPA700KR	350	14	2.8	34.5x59
4	700	405PPA700KS	300	14	3.1	33x59
4	850	405PPA850KR	425	14	2.3	40.5x55
4	850	405PPA850KS	375	14	2.6	38.5x59
4.7	700	475PPA700KS	300	14	2.9	35.5x59
4.7	700	475PPA700K	350	14	2.6	37.5x55
4.7	850	475PPA850KS	375	14	2.4	41.5x59
5.6	700	565PPA700KS	300	14	2.6	38.5x59
5.6	700	565PPA700K	350	14	2.3	41x55
6.8	700	685PPA700KS	300	14	2.4	42x59