

Metallized Polypropylene Film Capacitors

For Snubber, IGBT & Power Semiconductor Power Circuits

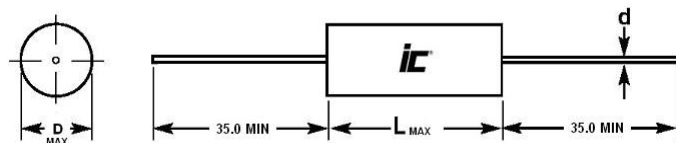
FEATURES

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

APPLICATIONS

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

Operating Temperature Range	-40°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	1100	1300	1550	1750	2200	2600	3300	4000
AC voltage (50/60 Hz)	WVDC	700	850	1000	1200	1500	2000	2500	3000
	VAC	420	500	525	550	600	650	700	750
Dissipation Factor (MAX) 25°C	Frequency (kHz)	C≤0.1uF		C>1uF					
	1	0.05%		0.07%					
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	30000 MΩxμF (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	Polypropylene								
Construction	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

PPS

High Voltage, high dvdt Axial Lead

WVDC	Capacitance (μF)	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)
700	0.15	154PPS700KG	235	3.5	11	11.5x29
700	0.22	224PPS700KG	235	4.5	8.7	13x29
700	0.33	334PPS700KG	235	5.5	6.7	15x29
700	0.33	334PPS700KJ	185	5.5	7.4	13x34
700	0.47	474PPS700KG	235	7	5.3	17.5x29
700	0.47	474PPS700K	185	6.5	5.9	15x34
700	0.68	684PPS700K	185	8	4.9	17.5x34
700	1	105PPS700K	185	10	4.1	21x34
700	1	105PPS700KD17	130	10	4.8	17.5x46
700	1.5	155PPS700K	185	10.5	3.5	25x34
700	1.5	155PPS700KD21	130	10.5	4.3	21x46
700	2	205PPS700KN	130	10.5	4	24x46
700	2.2	225PPS700K	130	10.5	3.9	25x46
700	2.5	255PPS700K	130	14	3.5	26.5x46
700	3	305PPS700KN	130	14	3.3	29x46
700	3.3	335PPS700K	130	14	3.1	30x46
700	3.3	335PPS700KD26	110	14	3.9	26.5x55
700	3.3	335PPS700KS	90	13.5	4.4	25x59
700	4	405PPS700K	130	14	2.8	32.5x46
700	4	405PPS700KD28	110	14	3.6	28.5x55
700	4	405PPS700KS	90	14	4.1	27x59
700	4.7	475PPS700K	110	14	3.3	31x55
700	4.7	475PPS700KS	90	14	3.7	29x59
700	5	505PPS700K	110	14	3.2	32x55
700	5	505PPS700KS	90	14	3.6	30x59
700	6.8	685PPS700K	110	14	2.7	37x55
700	6.8	685PPS700KS	90	14	3.1	34.5x59
700	8.2	825PPS700K	110	14	2.4	40.5x55
700	8.2	825PPS700KS	90	14	2.7	38x59
700	10	106PPS700KS	90	14	2.5	41.5x59
850	0.1	104PPS850KG	375	3.5	12.9	11.5x29
850	0.15	154PPS850KG	375	4.5	9.8	13x29
850	0.15	154PPS850K	300	4.5	10.8	12x34
850	0.22	224PPS850KG	375	5.5	7.7	15x29
850	0.22	224PPS850K	300	5.5	8.4	13.5x34
850	0.33	334PPS850KG	375	7	5.9	17.5x29
850	0.33	334PPS850K	300	7	6.6	16x34
850	0.47	474PPS850K	300	9	5.4	18.5x34
850	0.68	684PPS850K	300	10	4.3	21.5x34
850	0.68	684PPS850KD18	200	9	5.4	18x46
850	1	105PPS850K	300	13	3.3	26x34
850	1	105PPS850KD21	200	10.5	4.3	21.5x46
850	1.5	155PPS850K	200	14	3.5	25.5x46
850	2	205PPS850K	200	14	2.9	29x46
850	2.2	225PPS850K	200	14	2.9	30x46
850	2.2	225PPS850KR	125	14	3.8	26.5x55
850	2.2	225PPS850KS	110	14	4.3	25x59
850	2.5	255PPS850K	200	14	2.7	32x46
850	2.5	255PPS850KD28	125	12	3.6	28x55
850	2.5	255PPS850KS	110	14	4.1	26.5x59
850	3	305PPS850K	200	14	2.4	34.5x46
850	3	305PPS850KD30	125	14	3.2	30.5x55
850	3	305PPS850KS	110	14	3.6	29x59
850	3.3	335PPS850K	125	14	3.1	32x55
850	3.3	335PPS850KS	110	14	3.5	30x59
850	4	405PPS850K	125	14	2.8	35x55
850	4	405PPS850KS	110	14	3.1	33x59
850	4.7	475PPS850K	125	14	2.5	37x55

WVDC	Capacitance (μF)	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)
850	4.7	475PPS850KS	110	14	2.8	35.5x59
850	5	505PPS850K	125	14	2.4	38x55
850	5	505PPS850KS	110	14	2.7	36.5x59
850	5.6	565PPS850K	125	12	2.2	40.5x55
850	6.8	685PPS850KS	110	14	2.3	41.5x59
1000	0.068	683PPS102KG	425	3	16.7	11.5x29
1000	0.1	104PPS102KG	425	3.5	12.4	13x29
1000	0.15	154PPS102KG	425	5	9.3	15x29
1000	0.15	154PPS102KJ	340	4.5	10.3	13x34
1000	0.22	224PPS102KG	425	6.5	7	17x29
1000	0.22	224PPS102K	340	5.5	7.7	15x34
1000	0.33	334PPS102K	340	7.5	5.8	17.5x34
1000	0.47	474PPS102K	340	9.5	4.6	21x34
1000	0.47	474PPS102KD17	225	9	5.8	17.5x46
1000	0.68	684PPS102K	340	10.5	3.8	24.5x34
1000	0.68	684PPS102KD20	225	10.5	4.9	20.5x46
1000	1	105PPS102K	225	13	3.9	24.5x46
1000	1.5	155PPS102K	225	14	3.1	29.5x46
1000	1.5	155PPS102KD25	165	14	4.1	25.5x55
1000	1.5	155PPS102KS	135	13	4.7	24.5x59
1000	2	205PPS102K	225	14	2.6	33x46
1000	2	205PPS102KD29	165	14	3.5	29x55
1000	2	205PPS102KS	135	14	3.9	27.5x59
1000	2.2	225PPS102K	165	14	3.4	30.5x55
1000	2.2	225PPS102KS	135	14	3.8	28.5x59
1000	2.5	255PPS102K	165	14	3.1	33x55
1000	2.5	255PPS102KS	135	14	3.5	31x59
1000	3	305PPS102KR	165	14	2.8	35.5x55
1000	3	305PPS102KS	135	14	3.1	33x59
1000	3.3	335PPS102K	165	14	2.7	36.5x55
1000	3.3	335PPS102KS	135	14	3	34.5x59
1000	4	405PPS102K	165	14	2.4	40x55
1000	4	405PPS102KS	135	14	2.7	38x59
1000	4.7	475PPS102KS	135	14	2.4	40.5x59
1200	0.047	473PPS122KG	480	2.5	20.5	11x29
1200	0.068	683PPS122KG	480	3	15.8	12.5x29
1200	0.1	104PPS122KG	480	4.5	12	14.5x29
1200	0.1	104PPS122KJ	390	4	13.5	12.5x34
1200	0.15	154PPS122KG	485	5.5	8.8	17x29
1200	0.15	154PPS122K	390	5	9.8	14.5x34
1200	0.22	224PPS122K	390	6.5	7.1	17x34
1200	0.33	334PPS122K	390	8.5	5.3	20.5x34
1200	0.33	334PPS122KD17	255	8	6.7	17x46
1200	0.47	474PPS122K	390	10.5	3.7	23.5x34
1200	0.47	474PPS122KD20	255	9.5	5.6	20x46
1200	0.68	684PPS122K	255	10.5	4.9	23x46
1200	1	105PPS122K	255	13.5	4.1	27.5x46
1200	1.2	125PPS122K	255	14	3.7	30x46
1200	1.5	155PPS122K	255	14	3.2	33.5x46
1200	1.5	155PPS122KD29	190	14	3.7	29x55
1200	1.5	155PPS122KS	150	14	4.2	27x59
1200	2	205PPS122K	190	14	3.2	33x55
1200	2	205PPS122KS	150	14	3.6	31x59
1200	2.2	225PPS122K	190	14	3	34.5x55
1200	2.2	225PPS122KS	150	14	3.4	32.5x59
1200	2.5	255PPS122K	190	14	2.7	36.5x55
1200	2.5	255PPS122KS	150	14	3	34.5x59
1200	3	305PPS122K	190	14	2.4	40x55

PPS

High Voltage, high dvdt Axial Lead

WVDC	Capacitance (μF)	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)
1200	3	305PPS122KS	150	14	2.7	37.5x59
1200	3.3	335PPS122K	190	14	2.3	41.5x55
1200	3.3	335PPS122KS	150	14	2.6	39x59
1500	0.01	103PPS252KG	1050	1.5	58	11.5x29
1500	0.033	333PPS152KG	610	2.5	26	11.5x29
1500	0.047	473PPS152KG	610	3	19.5	13x29
1500	0.068	683PPS152KG	610	3.5	14.5	14.5x29
1500	0.068	683PPS152KJ	490	3.5	16.1	12.5x34
1500	0.1	104PPS152KG	610	5	10.9	17.5x29
1500	0.1	104PPS152K	490	4.5	12	14.5x34
1500	0.15	154PPS152K	490	6	8.7	17.5x34
1500	0.22	224PPS152K	490	8	6.5	20.5x34
1500	0.22	224PPS152KD17	320	7.5	8.5	17x46
1500	0.33	334PPS152K	490	10	4.8	24.5x34
1500	0.33	334PPS152KD20	320	9	6.4	20.5x46
1500	0.47	474PPS152K	320	11.5	5.1	24x46
1500	0.68	684PPS152K	320	13.5	4.4	28x46
1500	1	105PPS152K	320	14	3.3	33.5x46
1500	1	105PPS152KD29	235	14	4.5	29x55
1500	1	105PPS152KS	175	13.5	5.1	28x59
1500	1.2	125PPS152K	235	14	4	31.5x55
1500	1.2	125PPS152KS	175	14	4.5	28x59
1500	1.5	155PPS152K	235	14	3.5	35.5x55
1500	1.5	155PPS152KS	175	14	3.9	33.5x59
1500	2	205PPS152K	235	14	3	40.5x55
1500	2	205PPS152KS	175	14	3.3	38x59
1500	2.2	225PPS152KR	235	14	2.9	41.5x55
1500	2.2	225PPS152KS	175	14	3.2	40x59
2000	0.022	223PPS202KG	810	2.5	33	12x29
2000	0.033	333PPS202K	635	3	24.5	13x34
2000	0.047	473PPS202KG	810	3.5	18.5	15.5x29
2000	0.047	473PPS202K	650	3	20.5	13x34
2000	0.068	683PPS202KG	810	4.5	13.8	17.5x29
2000	0.068	683PPS202K	650	4	15	15x34
2000	0.1	104PPS202K	650	5.5	11.6	17.5x34
2000	0.15	154PPS202K	650	7.5	8.2	21.5x34
2000	0.15	154PPS202KD17	410	6.5	10	17.5x46
2000	0.22	224PPS202K	650	9.5	5.7	25.5x34
2000	0.22	224PPS202KD21	410	9	7.2	21x46
2000	0.33	334PPS202K	410	11.5	5.5	25x46
2000	0.47	474PPS202K	410	13.5	4.5	29x46
2000	0.68	684PPS202K	410	14	3.7	34.5x46
2000	0.68	684PPS202KD30	300	14	4.7	30x55
2000	0.68	684PPS202KR	300	14	4.7	30x55
2000	0.68	684PPS202KS	225	14	5.4	28.5x59
2000	1	105PPS202K	300	14	3.8	35.5x55

WVDC	Capacitance (μF)	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)
2000	1	105PPS202KS	225	14	4.3	33.5x59
2000	1.3	135PPS202K	300	14	3.3	40.5x55
2000	1.3	135PPS202KS	225	14	3.7	38x59
2000	1.5	155PPS202KS	225	14	3.5	40.5x59
2500	0.015	153PPS252KG	1050	2	42	13x29
2500	0.022	223PPS252KG	1050	2.5	30.5	15x29
2500	0.033	333PPS252KG	1050	3.5	22.5	17.5x29
2500	0.033	333PPS252K	870	3	26	13.5x34
2500	0.047	473PPS252K	870	4	19.1	15.5x34
2500	0.068	683PPS252K	870	5	14.5	18x34
2500	0.1	104PPS252K	870	7	11	22x34
2500	0.1	104PPS252KD17	550	6	14.2	17.5x46
2500	0.15	154PPS252K	870	8.5	7.6	26x34
2500	0.15	154PPS252KD21	550	7.5	9.3	21.5x46
2500	0.22	224PPS252K	550	10	6.8	25x46
2500	0.33	334PPS252K	550	13	5.2	30x46
2500	0.33	334PPS252KD26	375	12	6.3	26x55
2500	0.33	334PPS252KS	280	11	7.3	25x59
2500	0.47	474PPS252K	550	14	4.2	35.5x46
2500	0.47	474PPS252KD30	375	14	5.1	30.5x55
2500	0.47	474PPS252KS	280	13.5	5.8	29.5x59
2500	0.68	684PPS252K	375	14	4.2	36.5x55
2500	0.68	684PPS252KS	280	14	4.8	35x59
2500	0.82	824PPS252K	375	14	3.7	40x55
2500	0.82	824PPS252KS	280	14	4.2	38.5x59
2500	1	105PPS252KS	280	14	3.9	42x59
3000	0.0068	682PPS302KG	1500	1	75	12x29
3000	0.01	103PPS302KG	1500	1.5	56	14x29
3000	0.01	103PPS302K	1200	1.5	68	11.5x34
3000	0.015	153PPS302KG	1500	2.5	39	16x29
3000	0.015	153PPS302K	1200	2	43	14x34
3000	0.022	223PPS302K	1200	3	31.5	15.5x34
3000	0.033	333PPS302K	1200	4	22	18x34
3000	0.047	473PPS302K	1200	5	16	21x34
3000	0.068	683PPS302K	1200	7	12	25x34
3000	0.068	683PPS302KD20	750	6	15	20x46
3000	0.1	104PPS302K	750	7.5	11	23.5x46
3000	0.15	154PPS302K	750	10	8	28.5x46
3000	0.22	224PPS302K	750	13	6	34x46
3000	0.22	224PPS302KS	370	11	7.7	27.5x55
3000	0.22	224PPS302KD29	500	12	6.8	29x55
3000	0.33	334PPS302K	500	14	5.5	34x55
3000	0.33	334PPS302KS	370	14	6.2	32.5x59
3000	0.47	474PPS302K	500	14	4.9	41x55
3000	0.47	474PPS302KS	370	14	5.5	39x59
3000	0.56	564PPS302KS	370	14	5.1	42x59