FPA

Axial Leaded Impregnated Polypropylene Film with Aluminum Foil Electrodes



APPLICATIONS

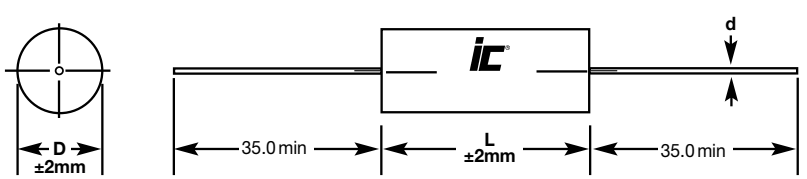
- *IGBT Protection Circuits*
- *Snubber Networks*
- *Energy Conversion*
- *Control Circuits*

FEATURES

- *High dv/dt*
- *Low Self Inductance*
- *Low ESR*
- *Impregnated Elements Eliminate Corona*

SPECIFICATIONS

Operating Temperature Range	**-25°C to +85°C**					
Capacitance Tolerance	**±10% at 1kHz, 20°C ±5% optional**					
AC Voltage	**WVDC**	850	1200	2000	2500	3000
	VAC	450	500	630	700	750
Dissipation Factor tan δ at 1 kHz and 20°C	**0.05% Max.**					
Insulation Resistance @20°C(<70% RH) for 1 minute at 500 VDC applied	**C≤ 0.33µF: 50000 MΩ C>0.33µF: 30000 MΩ**					
Self Inductance	<1 nano-Henry per mm of lead spacing and lead length					
Dielectric Strength	Terminal to Terminal VDC ≤ 2000VDC				Terminal to Terminal VDC > 2000VDC	
	250% of VDC applied for 2 seconds and 20°				200% of VDC applied for 2 seconds and 20°	
Construction	Impregnated Extended Foil Polypropylene Film					
Electrodes	Aluminum Foil					
Coating	Flame Retardant Polyester Tape Wrap with Epoxy End Fill					
Lead Terminations	Lead free tinned copper leads					



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Axial Leaded Impregnated Polypropylene Film with Aluminum Foil Electrodes

PHYSICAL DIMENSIONS

WVDC (VAC) / µF	850 (450)	1200 (500)	2000 (630)	2500 (700)	3000 (750)
0.01	→	→	12x23	→	12x23
0.015	→	→	15x23	→	12x23
0.022	→	→	15x23	→	15x23
0.033	→	→	17x35	17x35	17x35
0.047	→	15x23	17x35	17x35	19x55
0.068	→	15x23	17x35	17x35	19x55
0.1	17x35	17x35	19x42	19x42	19x55
0.15	17x35	17x35	19x42	19x42	19x55
0.22	19x42	19x42	25x55	19x55	25x55
0.33	19x42	19x42	30x55	25x55	30x55
0.47	19x55	19x55	→	25x55	
0.68	19x55	19x55			
1	25x55	25x55			
1.2	25x55	30x55			
1.5	25x55	30x55			
2	30x55				

Convert to inches, divide by 25.4

DxL(mm)

STANDARD PARTS LISTING

Capacitance (µF)	WVDC	IC® PART NUMBER	dv/dt (v/µs)	Maximum RMS Current @100 kHz, +70°C in Amps	Typical ESR @100 kHz, +25°C in mΩ	Dimensions DxL (mm)	d (mm)
0.01	2000	**103FPA202K**	1700	3	42	12x23	0.8
0.01	3000	**103FPA302K**	2800	2	62	12x23	0.8
0.015	2000	**153FPA202K**	1700	4	40.3	15x23	0.8
0.015	3000	**153FPA302K**	2800	3	41	12x23	0.8
0.022	2000	**223FPA202K**	1700	6	36.5	15x23	0.8
0.022	3000	**223FPA302K**	2800	4	28	15x23	0.8
0.033	2000	**333FPA202K**	1700	7	24.2	17x35	0.8
0.033	2500	**333FPA252K**	1500	4	20	17x35	0.8
0.033	3000	**333FPA302K**	1500	5	19.8	17x35	1.0
0.047	1200	**473FPA122K**	1400	5	18	15x23	0.8
0.047	2000	**473FFP202K**	1700	8	15.3	17x35	0.8
0.047	2500	**473FPA252K**	1500	6	13	17x35	0.8
0.047	3000	**473FPA302K**	1000	6.5	18	19x55	1.0
0.068	1200	**683FPA122K**	1400	6	13	15x23	0.8
0.068	2000	**683FPA202K**	1700	9	14.2	17x35	1.0
0.068	2500	**683FPA252K**	1500	8.2	11	17x35	1.0
0.068	3000	**683FPA302K**	1000	8	12.5	19x55	1.0
0.1	850	**104FPA850K**	1100	6	12	17x35	0.8
0.1	1200	**104FPA122K**	1300	8	11	17x35	1.0
0.1	2000	**104FPA202K**	1000	9	8.6	19x42	1.0
0.1	2500	**104FPA252K**	1200	8.2	8.9	19x42	1.0
0.1	3000	**104FPA302K**	1000	8	8.9	19x55	1.2
0.15	850	**154FPA850K**	1100	6	11.5	17x35	0.8
0.15	1200	**154FPA122K**	1300	8.2	8.2	17x35	1.0
0.15	2000	**154FPA202K**	1000	10	7.2	19x42	1.0

Capacitance (µF)	WVDC	IC® PART NUMBER	dv/dt (v/µs)	Maximum RMS Current @100 kHz, +70°C in Amps	Typical ESR @100 kHz, +25°C in mΩ	Dimensions DxL (mm)	d (mm)
0.15	2500	**154FPA252K**	1200	8.2	7.7	19x42	1.0
0.15	3000	**154FPA302K**	1000	11	6.7	19x55	1.2
0.22	850	**224FPA850K**	1000	7	10.2	19x42	0.8
0.22	1200	**224FPA122K**	1200	8.2	7.8	19x42	1.0
0.22	2000	**224FPA202K**	900	11	6.5	25x55	1.0
0.22	2500	**224FPA252K**	1000	9.1	6.9	19x55	1.2
0.22	3000	**224FPA302K**	1000	12	4.8	25x55	1.2
0.33	850	**334FPA850K**	1000	7	9	19x42	1.0
0.33	1200	**334FPA122K**	1200	9.1	7.3	19x42	1.0
0.33	2000	**334FPA202K**	900	11	4.6	30x55	1.2
0.33	2500	**334FPA252K**	1000	10.8	5.8	25x55	1.2
0.33	3000	**334FPA302K**	1000	12	4.2	30x55	1.2
0.47	850	**474FPA850K**	900	8	8.6	19x55	1.0
0.47	1200	**474FPA122K**	1000	11	6.8	19x55	1.0
0.47	2500	**474FPA252K**	1000	12	4.2	25x55	1.2
0.68	850	**684FPA850K**	900	8	8.3	19x55	1.0
0.68	1200	**684FPA122K**	1000	12	5.3	19x55	1.2
1	850	**105FPA850K**	900	10	7.6	25x55	1.2
1	1200	**105FPA122K**	1000	12	5	25x55	1.2
1.2	850	**125FPA850K**	900	11	7.2	25x55	1.2
1.2	1200	**125FPA122K**	1000	12	4.8	30x55	1.2
1.5	850	**155FPA850K**	900	12	6.8	25x55	1.2
1.5	1200	**155FPA122K**	1000	12	4.2	30x55	1.2
2	850	**205FPA850K**	900	12	5.6	30x55	1.2

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