

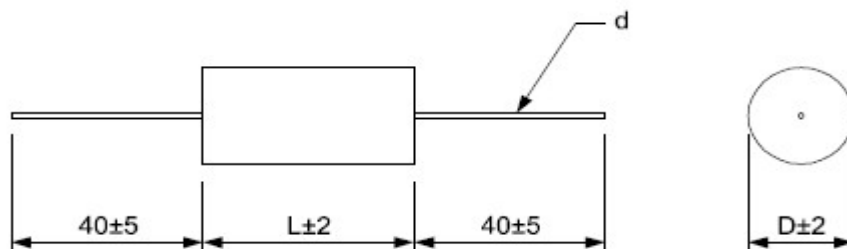
- Features:**
- Metallized polypropylene
 - Low self inductance
 - High capacitance
 - Low ESR

- Applications:**
- Switching power supplies
 - Solar heaters
 - DC link – Motor speed controls
 - UPS Power converters

Operating Temperature Range		-40°C to +85°C					
Capacitance Tolerance		+/-10% at 1 kHz, 20°C					
Rated Voltage	WVDC	250	330	400	600	700	850
	SVDC	400	500	600	800	1000	1200
	VAC	160	200	250	330	400	450
Dissipation Factor (max) at 20°C		Freq(kH)	C≤5μF	5μF<C≤30μF	C >30μF		
		1	.06%	.1%	.15%		
Insulation Resistance @20°C (<70% RH) for 1 minute at 100VDC		>30.000MΩxμF not to exceed 30.000MΩ					
Peak Current- Ipeak (Non-repetitive)		Ipeak=1.5*C*dv/dt Maximum					
Dielectric Strength		200% of rated WVDC for 10 seconds at 20°C between leads. 3kv at 60Hz for 60 seconds between leads and case.					
Self inductance		<1nH/mm of body length and lead wire length.					
Capacitance drift		<1.0% up to 40°C after 2 years					
Temperature Coefficient		-200ppm/°C +/- 100ppm/°C					
Life Expectancy Capacitance Change (typical)-5%		≥30.000 hours @VAC at 70°C ≥100.000 hours @ WVDC at 70°C					
Failure rate		300/billion component hours					
Dielectric		Metallized polypropylene film					
Electrodes		Vacuum deposited metal layers					
Leads		Tinned copper wire leads.					
Coating		Flame retardant polyester tape wrap (UL 510) with epoxy end fills (UL94V-0)					

▲Part Numbering System

125	FP	4100	*	1
Voltage	Type	Capacitance	Tolerance	Size
125=250vdc	FP	4100=0.1uf	K= ±10%	1
140=400vdc		5100=1uf	J= ±5%	2
185=850vdc		6100=10uf		3



▲FP article table (different values available upon request)

Cap	Dimension in mm			du/dt	Ipeak	Irms	ESR	VDTCAP Code
μF	D	L	d	V/μs	A	A	mΩ	
Un 250VDC Urms160 VAC								
1	9	27	0.8	50	50	4.5	7.2	125FP5100*1
1.5	11	27	0.8	50	75	5.5	5.8	125FP5150*1
2	12.5	27	0.8	50	100	6	4.9	125FP5200*1
2	10.5	32	0.8	40	80	5.5	5.7	125FP5200*2
2.2	13	27	0.8	50	110	6.5	4.8	125FP5220*1
2.2	11	32	0.8	40	88	6	5.4	125FP5220*2
2.5	13.5	27	0.8	50	125	7	4.5	125FP5250*1
2.5	12	32	0.8	40	100	7	5.1	125FP5250*2
3	15	27	0.8	50	150	7.5	4.2	125FP5300*1
3	13	32	0.8	40	120	7	4.6	125FP5300*2
3.3	13.5	32	0.8	40	132	8	4.2	125FP5330*1
4	15	32	1	40	160	9	3.6	125FP5400*1
4.7	16	32	1	40	188	10	3.3	125FP5470*1
5	16.5	32	1	40	200	10	3.2	125FP5500*1
6.8	19	32	1	40	272	10.5	2.9	125FP5680*1
10	22	32	1	40	400	10.5	2.4	125FP6100*1
10	19.5	44	1	25	250	10.5	3.1	125FP6100*2
15	23.5	44	1.2	25	375	14	2.6	125FP6150*1
20	27	44	1.2	25	500	14	5	125FP6200*1
22	28.5	44	1.2	25	550	14	4.7	125FP6220*1
25	30	44	1.2	25	625	14	4.4	125FP6250*1
30	29	53	1.2	20	600	14	4.5	125FP6300*1
30	27.5	57	1.2	15	450	14	5.3	125FP6300*2
33	30.5	53	1.2	20	660	14	4.3	125FP6330*1
33	29	57	1.2	15	495	14	5	125FP6330*2
40	34	53	1.2	20	800	14	3.9	125FP6400*1
40	31.5	57	1.2	15	600	14	4.5	125FP6400*2
50	38	53	1.2	20	1000	14	3.5	125FP6500*1
50	35	57	1.2	15	750	14	3.9	125FP6500*2
60	38	57	1.2	15	900	14	3.5	125FP6600*1

Cap	Dimension in mm			du/dt	Ipeak	Irms	ESR	VDTCAP Code
μF	D	L	d	V/μs	A	A	mΩ	
Un 330VDC Urms220 VAC								
1	10.5	27	0.8	60	60	5.5	6.6	133FP5100*1
1.5	13	27	0.8	60	90	6.5	5.3	133FP5150*1
1.5	11.5	32	0.8	45	67.5	6	6	133FP5150*2
2	14.5	27	0.8	60	120	7.5	4.5	133FP5200*1
2	13	32	0.8	45	90	7	5.4	133FP5200*2
2.2	15.5	27	0.8	60	132	8	4.1	133FP5220*1
2.2	13.5	32	0.8	45	99	7.5	5.1	133FP5220*2
2.5	14.5	32	1	45	112.5	8	4.8	133FP5250*1
3	16.5	32	1	45	135	9	4.2	133FP5300*1
3.3	17	32	1	45	148.5	9	4.1	133FP5330*1
4	18.5	32	1	45	180	10.5	3.6	133FP5400*1
4.7	20	32	1	45	211.5	10.5	3.1	133FP5470*1
4.7	17	44	1	30	141	10.5	4	133FP5470*2
5	20.5	32	1	45	225	10.5	3	133FP5500*1
5	17.5	44	1	30	150	10.5	3.9	133FP5500*2
6.8	20	44	1	30	204	10.5	3.4	133FP5680*1
10	24	44	1.2	30	300	11	6.7	133FP6100*1
15	29	44	1.2	30	450	13	5.4	133FP6150*1
15	26	53	1.2	25	375	12.5	6	133FP6150*2
15	24.5	57	1.2	20	300	12	6.8	133FP6150*3
20	29.5	53	1.2	25	500	14	5.1	133FP6200*1
20	28	57	1.2	20	400	13.5	5.8	133FP6200*2
22	31	53	1.2	25	550	14	4.8	133FP6220*1
22	29	57	1.2	20	440	14	5.4	133FP6220*2
25	33	53	1.2	25	625	14	4.5	133FP6250*1
25	31	57	1.2	20	500	14	5	133FP6250*2
30	36	53	1.2	25	750	14	4.1	133FP6300*1
30	34	57	1.2	20	600	14	4.5	133FP6300*2
33	37.5	53	1.2	25	825	14	3.9	133FP6330*1
33	35.5	57	1.2	20	660	14	4.3	133FP6330*2
35	39	53	1.2	25	875	14	3.8	133FP6350*1
35	36.5	57	1.2	20	700	14	4.2	133FP6350*2
40	39	57	1.2	20	800	14	3.9	133FP6400*1

Cap	Dimension in mm			du/dt	Ipeak	Irms	ESR	VDTCAP Code
μF	D	L	d	V/μs	A	A	mΩ	
Un 400VDC Urms250 VAC								
0.47	9	27	0.8	75	35.2	4	8.2	140FP4470*1
0.68	11	27	0.8	75	51	5.5	6.7	140FP4680*1
0.68	10	32	0.8	55	37.4	5	8.5	140FP4680*2
1	13	27	0.8	75	75	6.5	5.5	140FP5100*1
1	11	32	0.8	55	55	6	6.4	140FP5100*2
1.5	15.5	27	0.8	75	112.5	7.5	4.5	140FP5150*1
1.5	13.5	32	0.8	55	82.5	7	5.3	140FP5150*2
2	15.5	32	1	55	110	9	4.4	140FP5200*1
2.2	16.5	32	1	55	121	9	4.2	140FP5220*1
2.5	17	32	1	55	137	9.5	4	140FP5250*1
3	19	32	1	55	165	10.5	3.6	140FP5300*1
3.3	20	32	1	55	181	10.5	3.5	140FP5330*1
3.3	17	44	1	40	132	10.5	4.1	140FP5330*2
4	22	32	1	55	220	10.5	3.1	140FP5400*1
4	18.5	44	1	40	160	10.5	3.7	140FP5400*2
4.7	20	44	1	40	188	9.5	7.6	140FP5470*1
5	20.5	44	1	40	200	10	7.4	140FP5500*1
6.8	24	44	1.2	40	272	11	6.4	140FP5680*1
10	29	44	1.2	40	400	13	5.4	140FP6100*1
10	25	53	1.2	30	300	12	6.3	140FP6100*2
10	24	57	1.2	25	250	11	7.1	140FP6100*3
15	31	53	1.2	30	450	14	5	140FP6150*1
15	29	57	1.2	25	375	14	5.6	140FP6150*2
20	35	53	1.2	30	600	14	4.3	140FP6200*1
20	33	57	1.2	25	500	14	4.7	140FP6200*2
22	37	53	1.2	30	660	14	4.1	140FP6220*1
22	35	57	1.2	25	550	14	4.5	140FP6220*2
25	39.5	53	1.2	30	750	14	3.8	140FP6250*1
25	37	57	1.2	25	625	14	4.2	140FP6250*2

Cap	Dimension in mm			du/dt	Ipeak	Irms	ESR	VDTCAP Code
μF	D	L	d	V/μs	A	A	mΩ	
Un 600VDC Urms330 VAC								
0.33	10	27	0.8	95	31.3	4	9	160FP4330*1
0.47	11.5	27	0.8	95	44.6	5	7.9	160FP4470*1
0.47	10.5	32	0.8	75	35.2	5	8.9	160FP4470*2
0.68	14	27	0.8	95	64.6	6	6.5	160FP4680*1
0.68	12	32	0.8	75	51	6	7.4	160FP4680*2
1	15.5	32	1	75	75	8	5.8	160FP5100*1
1.5	18	32	1	75	112	9	4.7	160FP5150*1
2	21	32	1	75	150	10.5	3.9	160FP5200*1
2	18	44	1	55	110	10	5	160FP5200*2
2.2	22	32	1	75	165	10.5	3.6	160FP5220*1
2.2	19	44	1	55	121	10	4.6	160FP5220*2
2.5	20	44	1	55	137	10.5	4.4	160FP5250*1
3	22	44	1	55	165	10.5	4	160FP5300*1
3.3	23	44	1	55	181	10.5	3.8	160FP5330*1
4	25	44	1.2	55	220	13.5	3.4	160FP5400*1
4.7	27	44	1.2	55	258	12	6.4	160FP5470*1
4.7	24.5	53	1.2	50	235	11.5	7.7	160FP5470*2
4.7	22.5	57	1.2	40	188	11	8.6	160FP5470*3
5	27.5	44	1.2	55	275	12.5	6.3	160FP5500*1
5	25	53	1.2	50	250	12	7.4	160FP5500*2
5	23	57	1.2	40	200	11.5	8.3	160FP5500*3
6.8	28	53	1.2	50	340	12.5	6.5	160FP5680*1
6.8	26.5	57	1.2	40	272	12	7.3	160FP5680*2
10	33	53	1.2	50	500	14	5.4	160FP6100*1
10	31.5	57	1.2	40	400	14	6.1	160FP6100*2
12.5	38.5	53	1.2	50	625	14	4.9	160FP6125*1
12.5	35.5	57	1.2	40	500	14	5.5	160FP6125*2
15	39	57	1.2	40	600	14	5.1	160FP6150*1

Cap	Dimension in mm			du/dt	I _{peak}	I _{rms}	ESR	VDTCAP Code
μF	D	L	d	V/μs	A	A	mΩ	
Un700VDC Urms 400 VAC								
0.22	10.5	27	0.8	135	29.7	4	10.2	170FP4220*1
0.22	9.5	32	0.8	105	23.1	3.5	11	170FP4220*2
0.33	13	27	0.8	135	44.5	5	8.1	170FP4330*1
0.33	11.5	32	0.8	105	34.6	5	8.9	170FP4330*2
0.47	15	27	0.8	135	63.4	6.5	6.6	170FP4470*1
0.47	13.5	32	0.8	105	49.3	6.5	7.3	170FP4470*2
0.68	15.5	32	1	105	71.4	8	5.7	170FP4680*1
1	19.5	32	1	105	105	10	4.3	170FP5100*1
1	16	44	1	70	70	9	6.3	170FP5100*2
1.2	22	32	1	105	126	10.5	3.7	170FP5120*1
1.2	18	44	1	70	84	9	6	170FP5120*2
1.5	19.5	44	1	70	105	10.5	5.3	170FP5150*1
2	22.5	44	1.2	70	140	12	4.6	170FP5200*1
2.2	23.5	44	1.2	70	154	12.5	4.3	170FP5220*1
2.5	25	44	1.2	70	175	13.5	4	170FP5250*1
3	27	44	1.2	70	210	12	6.1	170FP5300*1
3.3	28.5	44	1.2	70	231	12	5.9	170FP5330*1
4	31.5	44	1.2	70	280	13.5	5.4	170FP5400*1
4	27	53	1.2	60	240	12.5	6.7	170FP5400*2
4	25.5	57	1.2	45	180	12	7.7	170FP5400*3
4.7	29	53	1.2	60	282	13	6.1	170FP5470*1
4.7	27.5	57	1.2	45	211.5	12	7	170FP5470*2
5	30	53	1.2	60	300	13.5	5.8	170FP5500*1
5	28.5	57	1.2	45	225	12.5	6.6	170FP5500*2
6.8	35	53	1.2	60	408	14	5.1	170FP5680*1
6.8	33	57	1.2	45	306	14	5.8	170FP5680*2
8.2	39	53	1.2	60	492	14	4.6	170FP5820*1
8.2	36	57	1.2	45	369	14	5.3	170FP5820*2
10	39.5	57	1.2	45	450	14	4.9	170FP6100*1

Cap	Dimension in mm			du/dt	I _{peak}	I _{rms} ⁽²⁾	ESR ⁽³⁾	VDTcap Code ⁽¹⁾
μF	D	L	d	V/μs	A	A	mΩ	
Un 850VDC Urms 500 VAC								
0.1	9.5	27	0.8	375	37.5	3.5	12.9	185FP4100*1
0.15	11	27	0.8	375	56.2	4.5	9.8	185FP4150*1
0.15	10	32	0.8	300	45	4.5	10.8	185FP4150*2
0.22	13	27	0.8	375	82.5	5.5	7.7	185FP4220*1
0.22	11.5	32	0.8	300	65	5.5	8.4	185FP4220*2
0.33	15.5	27	0.8	375	123.7	7	5.9	185FP4330*1
0.33	14	32	0.8	300	99	7	6.6	185FP4330*2
0.47	16.5	32	1	300	141	9	5.4	185FP4470*1
0.68	19.5	32	1	300	204	10	4.3	185FP4680*1
0.68	16	44	1	200	136	9	5.4	185FP4680*2
1	24	32	1.2	300	300	13	3.2	185FP5100*1
1	19.5	44	1	200	200	10.5	4.3	185FP5100*2
1.5	23.5	44	1.2	200	300	14	3.5	185FP5150*1
2	27	44	1.2	200	400	14	2.9	185FP5200*1
2.2	28	44	1.2	200	440	14	2.9	185FP5220*1
2.2	24.5	53	1.2	125	275	14	3.8	185FP5220*2
2.2	23	57	1.2	110	242	14	4.3	185FP5220*3
2.5	30	44	1.2	200	500	14	2.7	185FP5250*1
2.5	26	53	1.2	125	312	14	3.6	185FP5250*2
2.5	24.5	57	1.2	110	275	14	4.1	185FP5250*3
3	32.5	44	1.2	200	600	14	2.4	185FP5300*1
3	28.5	53	1.2	125	375	14	3.2	185FP5300*2
3	27	57	1.2	110	330	14	3.6	185FP5300*3
3.3	30	53	1.2	125	412	14	3.1	185FP5330*1
3.3	28	57	1.2	110	363	14	3.5	185FP5330*2
4	33	53	1.2	125	500	14	2.8	185FP5400*1
4	31	57	1.2	110	440	14	3.1	185FP5400*2
4.7	35	53	1.2	125	587	14	2.5	185FP5470*1
4.7	33.5	57	1.2	110	517	14	2.8	185FP5470*2
5	36	53	1.2	125	625	14	2.4	185FP5500*1
5	34.5	57	1.2	110	550	14	2.7	185FP5500*2
6.8	39.5	57	1.2	110	748	14	2.3	185FP5680*1

*Special design available to meet your requirements.