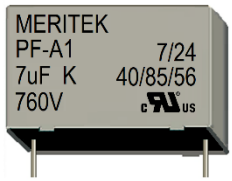
Power Film Capacitor, AC Filter
UL 810 Safety Class

PF-8A1 Series

MERITEK

FEATURE

- **High Ripple Current**
- **Self-Healing and Low Loss**
- **Optimized AC Voltage Performance**
- **Applications: Renewable Energies Inverters, UPS, Battery Charger, Harmonic Filter, Power Factory Correction (PFC)**
- **In Accordance with Safety Class of UL 810 Standard**



RoHS

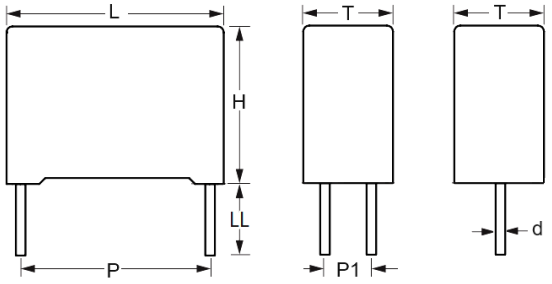
ELECTRICAL CHARACTERISTICS

Item	Characteristic							
Operating Temperature	-40~+105°C (85°C~+105°C Decreasing factor 1.35% per °C for Urms)							
Capacitance Range	0.1μF ~ 60μF, ±5%(J), ±10%(K) at 25°C							
Climatic Category	40/85/56 IEC60068-1							
Operating AC Voltage	180	250	300	350	400	500	600	760
Max Ripple Current	7~26	3~26	4~24	1.5~26	1.5~26	1.5~22	1.5~22	1.5~20
Dissipation Factor	C ≤20μF			C >20μF				at 1KHz; at 25°C
	≤0.002 (0.2%)			≤0.003 (0.3%)				
Overvoltage	110% of Vr		115%	120%		130%		Max duration within one day
	30% of On-Load		30mins	5mins		1min		
Insulation Resistance	IR*C ≥ 30,000sec			Between Leads (RC), at 100 Vdc, 60 sec, at 25°C ±5°C°				
Withstanding Voltage	(1.5* V_R) for 60sec - AC, (2.15* V_R) for 10sec - DC			Between Terminals, at 25°C±5°C				
	3000VAC, 50/60Hz 60sec			Between Terminal and Case, at 25 ±5°C				
Self-inductance	<1nH			per mm of lead spacing				
Life Expectancy	100,000 hours			at hot spot temperature T_{HS}				

DIMENSIONS

No of Pin	P ±0.5mm	P1 ±0.5mm	d ±0.05mm	L±1.0mm
2-pin	27.5	NA	0.8, 1.0	32
2-pin	37.5	NA	1.0, 1.2	42
4-pin	27.5	20.3	0.8, 1.0	32
4-pin	37.5	20.3	1.0, 1.2	42
4-pin	52.5	20.3	1.2	57.5

Note:
1. L±1.0mm, H±1mm, T±1mm, See the table below for dimension
2. LL Options: 3mm, 4mm, 5mm, 7mm, 15mm Min



PART NUMBERING SYSTEM

PF	705K	76	540	A1	5
(1)	(2)	(3)	(4)	(4)	(4)

No	Item	Code	Description	
(1)	**Product Code**	PF	Power Film Capacitor, Metallized PP Film	
(2)	**Nominal Capacitance**	705K	7 μF ± 10%(K)	First two digits: Significant, Third: Multiplier
(3)	**Rated AC Voltage Code**	76	76: 760V_{AC}	First two digits of Operating AC Voltage
(4)	**Internal Code**	540	37: 37.5mm pitch, 4: 4pins, 0: Case Code	See the electrical specification table below
(5)	**Series Code**	8A1	AC Filter Capacitor Series, Box Type UL 810 Safety Class	
(6)	**Option Code**	5	5: LL 5mm bulk package	Blank: LL: 15mm min, 4: LL 4mm, Bulk

ELECTRICAL SPECIFICATION – 180VAC (18)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Res	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
4.0	32.0	22.0	13.0	27.5	-	0.8	75	300	900	6.8	16	45.0	7.0	2	PF405%18220A1x
5.0	32.0	28.0	18.0	27.5	-	0.8	75	375	1125	5.5	18	42.6	8.0	2	PF505%18220A1x
6.8	32.0	33.0	18.0	27.5	-	0.8	75	510	1530	4.0	20	31.0	11.0	2	PF685%18220A1x
10	32.0	37.0	22.0	27.5	-	1.0	75	750	2250	2.8	22	31.7	13.0	2	PF106%18220A1x
10	42.0	32.0	19.0	37.5	-	1.0	45	450	1350	5.0	24	30.0	10.0	2	PF106%18320A1x
15	42.0	37.0	22.0	37.5	-	1.0	45	675	2025	3.5	24	21.9	14.0	2	PF156%18340A1x
18	42.0	44.0	24.0	37.5	-	1.0	45	810	2430	2.8	24	27.3	14.0	2	PF186%18340A1x
20	42.0	44.0	24.0	37.5	-	1.0	45	900	2700	2.5	24	26.7	15.0	2	PF206%18320A1x
22	42.0	44.0	24.0	37.5	-	1.0	45	990	2970	2.2	26	30.3	15.0	2	PF226%18320A1x
25	42.0	45.0	30.0	37.5	-	1.0	45	1125	3375	2.0	26	33.3	15.0	2	PF256%18320A1x
30	42.0	50.0	35.0	37.5	20.3	1.2	45	1350	4050	1.8	28	25.7	18.0	4	PF306%18320A1x
33	42.0	50.0	35.0	37.5	20.3	1.2	45	1485	4455	1.6	28	28.9	18.0	4	PF336%18320A1x
40	57.5	45.0	30.0	52.5	20.3	1.2	25	1000	3000	2.5	30	15.0	20.0	4	PF406%18540A1x
50	57.5	50.0	35.0	52.5	20.3	1.2	25	1250	3750	2.2	32	11.8	24.0	4	PF506%18540A1x
60	57.5	57.5	38.0	52.5	20.3	1.2	25	1500	4500	1.8	32	12.3	26.0	4	PF606%18540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 250VAC (25)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
1.0	32.0	18.0	9.0	27.5	-	0.8	90	90	270	16.5	16	101.0	3.0	2	PF105%25220A1x
1.5	32.0	20.0	11.0	27.5	-	0.8	90	135	405	10.5	16	89.3	4.0	2	PF155%25220A1x
2.0	32.0	22.0	13.0	27.5	-	0.8	90	180	540	8.5	16	70.6	5.0	2	PF205%25220A1x
2.2	32.0	22.0	13.0	27.5	-	0.8	90	198	594	7.8	16	53.4	6.0	2	PF225%25220A1x
2.5	32.0	22.0	13.0	27.5	-	0.8	90	225	675	7.5	16	55.6	6.0	2	PF255%25220A1x
3.0	32.0	24.5	15.0	27.5	-	0.8	90	270	810	6.5	16	47.1	7.0	2	PF305%25220A1x
3.3	32.0	24.5	15.0	27.5	-	0.8	90	297	891	6.2	16	37.8	8.0	2	PF335%25220A1x
3.5	32.0	28.0	14.0	27.5	-	0.8	90	315	945	5.8	18	40.4	8.0	2	PF355%25220A1x
4.0	32.0	28.0	18.0	27.5	-	0.8	90	360	1080	4.8	20	31.3	10.0	2	PF405%25220A1x
4.5	32.0	33.0	18.0	27.5	-	0.8	90	405	1215	4.5	20	33.3	10.0	2	PF455%25220A1x
5.0	32.0	33.0	18.0	27.5	-	0.8	90	450	1350	4.0	20	31.0	11.0	2	PF505%25220A1x
6.8	32.0	37.0	22.0	27.5	-	1.0	90	612	1836	2.8	22	27.3	14.0	2	PF106%25220A1x
4.7	42.0	30.0	16.0	37.5	-	1.0	60	282	846	7.5	24	40.8	7.0	2	PF475%25320A1x
5.0	42.0	30.0	16.0	37.5	-	1.0	60	300	900	7.0	24	33.5	8.0	2	PF505%25320A1x
6.0	42.0	30.0	16.0	37.5	-	1.0	60	360	1080	6.0	24	30.9	9.0	2	PF605%25320A1x
6.5	42.0	30.0	16.0	37.5	-	1.0	60	390	1170	5.6	24	26.8	10.0	2	PF655%25320A1x
6.8	42.0	32.0	19.0	37.5	-	1.0	60	408	1224	5.4	24	25.2	10.5	2	PF685%25320A1x
7.5	42.0	32.0	19.0	37.5	-	1.0	60	450	1350	5.0	24	24.8	11.0	2	PF755%25320A1x
8.0	42.0	37.0	22.0	37.5	-	1.0	60	480	1440	4.5	24	23.1	12.0	2	PF805%25340A1x
10	42.0	37.0	22.0	37.5	-	1.0	60	600	1800	3.6	24	24.7	13.0	2	PF106%25340A1x
12	42.0	44.0	24.0	37.5	-	1.0	60	720	2160	3.0	24	25.5	14.0	2	PF126%25340A1x
15	42.0	44.0	24.0	37.5	-	1.0	60	900	2700	2.5	24	30.6	14.0	2	PF156%25320A1x
18	42.0	43.0	28.0	37.5	-	1.0	60	1080	3240	2.2	26	30.3	15.0	2	PF186%25320A1x
20	42.0	45.0	30.0	37.5	-	1.0	60	1200	3600	2.0	26	33.3	15.0	2	PF206%25320A1x
22	42.0	50.0	35.0	37.5	20.3	1.2	60	1320	3960	1.8	28	25.7	18.0	4	PF226%25340A1x
25	57.5	45.0	30.0	52.5	20.3	1.2	30	750	2250	3.2	30	14.5	18.0	4	PF256%25540A1x
30	57.5	45.0	30.0	52.5	20.3	1.2	30	900	2700	2.8	30	13.4	20.0	4	PF306%25540A1x
35	57.5	50.0	35.0	52.5	20.3	1.2	30	1050	3150	2.4	32	10.9	24.0	4	PF356%25540A1x
40	57.5	57.5	38.0	52.5	20.3	1.2	30	1200	3600	2.0	32	11.1	26.0	4	PF406%25540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 300VAC(30)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
1.0	32.0	20.0	11.0	27.5	-	0.8	90	90	270	12.5	16	75.0	4.0	2	PF105%30220A1x
1.5	32.0	22.0	13.0	27.5	-	0.8	90	135	405	8.5	16	70.6	5.0	2	PF155%30220A1x
2.0	32.0	24.5	15.0	27.5	-	0.8	90	180	540	7.5	16	55.6	6.0	2	PF205%30220A1x
2.2	32.0	24.5	15.0	27.5	-	0.8	90	198	594	6.8	16	45.0	7.0	2	PF225%30220A1x
2.5	32.0	28.0	14.0	27.5	-	0.8	90	225	675	6.5	18	36.1	8.0	2	PF255%30220A1x
3.0	32.0	28.0	18.0	27.5	-	0.8	90	270	810	6.0	20	30.9	9.0	2	PF305%30220A1x
3.3	32.0	33.0	18.0	27.5	-	0.8	90	297	891	4.8	20	31.3	10.0	2	PF335%30220A1x
3.5	32.0	33.0	18.0	27.5	-	0.8	90	315	945	4.6	20	29.6	10.5	2	PF355%30220A1x
4.0	32.0	33.0	18.0	27.5	-	0.8	90	360	1080	4.2	20	29.5	11.0	2	PF405%30220A1x
4.7	32.0	37.0	22.0	27.5	-	1.0	90	423	1269	3.8	22	23.4	13.0	2	PF475%30220A1x
5.0	32.0	37.0	22.0	27.5	-	1.0	90	450	1350	3.6	22	22.9	13.5	2	PF505%30220A1x
5.6	32.0	37.0	22.0	27.5	-	1.0	90	504	1512	3.0	22	25.5	14.0	2	PF565%30220A1x
3.0	42.0	30.0	16.0	37.5	-	1.0	60	180	540	9.0	24	46.3	6.0	2	PF305%30320A1x
3.3	42.0	30.0	16.0	37.5	-	1.0	60	198	594	8.5	24	36.0	7.0	2	PF335%30320A1x
3.5	42.0	30.0	16.0	37.5	-	1.0	60	210	630	8.0	24	38.3	7.0	2	PF355%30320A1x
4.0	42.0	30.0	16.0	37.5	-	1.0	60	240	720	6.8	24	34.5	8.0	2	PF405%30320A1x
4.5	42.0	30.0	16.0	37.5	-	1.0	60	270	810	6.0	24	30.9	9.0	2	PF455%30320A1x
4.7	42.0	30.0	16.0	37.5	-	1.0	60	282	846	5.8	24	31.9	9.0	2	PF475%30320A1x
5.0	42.0	32.0	19.0	37.5	-	1.0	60	300	900	5.5	24	27.3	10.0	2	PF505%30320A1x
6.0	42.0	32.0	19.0	37.5	-	1.0	60	360	1080	5.0	24	24.8	11.0	2	PF605%30320A1x
6.8	42.0	37.0	22.0	37.5	-	1.0	60	408	1224	4.5	24	23.1	12.0	2	PF685%30340A1x
8.0	42.0	37.0	22.0	37.5	-	1.0	60	480	1440	3.6	24	24.7	13.0	2	PF805%30340A1x
10	42.0	44.0	24.0	37.5	-	1.0	60	600	1800	3.0	24	25.5	14.0	2	PF106%30340A1x
12	42.0	43.0	28.0	37.5	-	1.0	60	720	2160	2.4	26	27.8	15.0	2	PF126%30320A1x
15	42.0	45.0	30.0	37.5	-	1.0	60	900	2700	2.2	26	30.3	15.0	2	PF156%30320A1x
18	42.0	50.0	35.0	37.5	20.3	1.2	60	1080	3240	2.0	28	23.1	18.0	4	PF186%30340A1x
18	57.5	45.0	30.0	52.5	20.3	1.2	30	540	1620	3.5	30	16.7	16.0	4	PF186%30540A1x
20	57.5	45.0	30.0	52.5	20.3	1.2	30	600	1800	3.2	30	14.5	18.0	4	PF206%30540A1x
25	57.5	50.0	35.0	52.5	20.3	1.2	30	750	2250	3.0	32	12.5	20.0	4	PF256%30540A1x
30	57.5	57.5	38.0	52.5	20.3	1.2	30	900	2700	2.4	32	10.9	24.0	4	PF306%30540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 350VAC (35)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
0.33	32.0	18.0	9.0	27.5	-	0.8	100	33	99	45.0	16	148.1	1.5	2	PF334%35220A1x
0.39	32.0	18.0	9.0	27.5	-	0.8	100	39	117	40.0	16	146.5	1.6	2	PF394%35220A1x
0.47	32.0	18.0	9.0	27.5	-	0.8	100	47	141	35.0	16	107.1	2.0	2	PF474%35220A1x
0.68	32.0	20.0	11.0	27.5	-	0.8	100	68	204	24.0	16	100.0	2.5	2	PF684%35220A1x
0.82	32.0	22.0	13.0	27.5	-	0.8	100	82	246	20.5	16	81.3	3.0	2	PF824%35220A1x
1.0	32.0	22.0	13.0	27.5	-	0.8	100	100	300	15.5	16	94.5	3.2	2	PF105%35220A1x
1.5	32.0	24.5	15.0	27.5	-	0.8	100	150	450	13.0	16	72.1	4.0	2	PF155%35220A1x
2.0	32.0	28.0	18.0	27.5	-	0.8	100	200	600	10.8	18	60.3	4.8	2	PF205%35220A1x
2.2	32.0	28.0	18.0	27.5	-	0.8	100	220	660	10.2	18	58.8	5.0	2	PF225%35220A1x
2.5	32.0	33.0	18.0	27.5	-	0.8	100	250	750	7.0	20	59.5	6.0	2	PF255%35220A1x
3.0	32.0	37.0	22.0	27.5	-	1.0	100	300	900	5.8	22	52.8	7.0	2	PF305%35220A1x
3.3	32.0	37.0	22.0	27.5	-	1.0	100	330	990	5.2	22	51.3	7.5	2	PF335%35220A1x
3.5	32.0	37.0	22.0	27.5	-	1.0	100	350	1050	5.0	22	49.3	7.8	2	PF355%35220A1x
4.0	32.0	37.0	22.0	27.5	-	1.0	100	400	1200	4.5	22	52.1	8.0	2	PF405%35220A1x
2.0	42.0	30.0	16.0	37.5	-	1.0	70	140	420	12.8	24	57.9	4.5	2	PF205%35320A1x
2.2	42.0	30.0	16.0	37.5	-	1.0	70	154	462	12.5	24	52.1	4.8	2	PF225%35320A1x
2.5	42.0	30.0	16.0	37.5	-	1.0	70	175	525	11.8	24	47.0	5.2	2	PF255%35320A1x
3.0	42.0	30.0	16.0	37.5	-	1.0	70	210	630	10.8	24	45.9	5.5	2	PF305%35320A1x
3.3	42.0	30.0	16.0	37.5	-	1.0	70	231	693	8.8	24	47.3	6.0	2	PF335%35320A1x
3.5	42.0	30.0	16.0	37.5	-	1.0	70	245	735	8.6	24	41.3	6.5	2	PF355%35320A1x
4.0	42.0	32.0	19.0	37.5	-	1.0	70	280	840	8.0	24	38.3	7.0	2	PF405%35320A1x
4.5	42.0	37.0	22.0	37.5	-	1.0	70	315	945	7.0	24	33.5	8.0	2	PF455%35340A1x
5.0	42.0	37.0	22.0	37.5	-	1.0	70	350	1050	6.8	24	30.5	8.5	2	PF505%35340A1x
5.5	42.0	37.0	22.0	37.5	-	1.0	70	385	1155	6.4	24	30.3	8.8	2	PF555%35340A1x
6.0	42.0	44.0	24.0	37.5	-	1.0	70	420	1260	6.0	24	27.7	9.5	2	PF605%35340A1x
6.5	42.0	44.0	24.0	37.5	-	1.0	70	455	1365	5.5	24	27.3	10.0	2	PF655%35340A1x
7.0	42.0	44.0	24.0	37.5	-	1.0	70	490	1470	5.2	24	26.2	10.5	2	PF705%35340A1x
8.0	42.0	44.0	24.0	37.5	-	1.0	70	560	1680	5.2	24	26.2	10.5	2	PF805%35340A1x
8.5	42.0	43.0	28.0	37.5	-	1.0	70	595	1785	4.8	26	25.8	11.0	2	PF855%35320A1x
9.0	42.0	43.0	28.0	37.5	-	1.0	70	630	1890	4.6	26	26.9	11.0	2	PF905%35320A1x
9.5	42.0	45.0	30.0	37.5	-	1.0	70	665	1995	4.4	26	25.8	11.5	2	PF955%35320A1x
10	42.0	45.0	30.0	37.5	-	1.0	70	700	2100	4.2	26	24.8	12.0	2	PF106%35320A1x
12	42.0	50.0	35.0	37.5	20.3	1.2	70	840	2520	3.6	28	21.3	14.0	4	PF126%35340A1x
15	57.5	45.0	30.0	52.5	20.3	1.2	40	600	1800	3.5	30	15.7	16.5	4	PF156%35540A1x
18	57.5	50.0	35.0	52.5	20.3	1.2	40	720	2160	3.0	32	15.4	18.0	4	PF186%35540A1x
20	57.5	57.5	38.0	52.5	20.3	1.2	40	800	2400	2.8	32	13.4	20.0	4	PF206%35540A1x
22	57.5	57.5	38.0	52.5	20.3	1.2	40	880	2640	2.6	32	11.9	22.0	4	PF226%35540A1x
25	57.5	55.0	45.0	52.5	20.3	1.2	40	1000	3000	2.4	32	10.9	24.0	4	PF256%35540A1x
30	57.5	65.0	45.0	52.5	20.3	1.2	40	1200	3600	2.2	32	10.1	26.0	4	PF306%35540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 400VAC (40)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
0.33	32.0	18.0	9.0	27.5	-	0.8	120	40	119	45.0	16	148.1	1.5	2	PF334%40220A1x
0.39	32.0	18.0	9.0	27.5	-	0.8	120	47	140	40.0	16	146.5	1.6	2	PF394%40220A1x
0.47	32.0	18.0	9.0	27.5	-	0.8	120	56	169	35.0	16	107.1	2.0	2	PF474%40220A1x
0.68	32.0	20.0	11.0	27.5	-	0.8	120	82	245	24.0	16	100.0	2.5	2	PF684%40220A1x
0.82	32.0	22.0	13.0	27.5	-	0.8	120	98	295	20.5	16	81.3	3.0	2	PF824%40220A1x
1.0	32.0	24.0	14.0	27.5	-	0.8	120	120	360	15.5	16	94.5	3.2	2	PF105%40220A1x
1.5	32.0	28.0	18.0	27.5	-	0.8	120	180	540	10.8	18	60.3	4.8	2	PF155%40220A1x
2.0	32.0	33.0	18.0	27.5	-	0.8	120	240	720	7.0	20	59.5	6.0	2	PF205%40220A1x
2.2	32.0	33.0	18.0	27.5	-	0.8	120	264	792	7.0	20	59.5	6.0	2	PF225%40220A1x
2.5	32.0	37.0	22.0	27.5	-	1.0	120	300	900	5.8	22	52.8	7.0	2	PF255%40220A1x
3.0	32.0	37.0	22.0	27.5	-	1.0	120	360	1080	5.2	22	51.3	7.5	2	PF305%40220A1x
2.0	42.0	30.0	16.0	37.5	-	1.0	80	160	480	12.8	24	57.9	4.5	2	PF205%40320A1x
2.2	42.0	30.0	16.0	37.5	-	1.0	80	176	528	12.5	24	52.1	4.8	2	PF225%40320A1x
2.5	42.0	30.0	16.0	37.5	-	1.0	80	200	600	11.8	24	47.0	5.2	2	PF255%40320A1x
3.0	42.0	32.0	19.0	37.5	-	1.0	80	240	720	8.8	24	47.3	6.0	2	PF305%40320A1x
3.3	42.0	32.0	19.0	37.5	-	1.0	80	264	792	8.6	24	41.3	6.5	2	PF335%40320A1x
3.5	42.0	37.0	22.0	37.5	-	1.0	80	280	840	8.0	24	38.3	7.0	2	PF355%40340A1x
4.0	42.0	37.0	22.0	37.5	-	1.0	80	320	960	7.0	24	33.5	8.0	2	PF405%40340A1x
4.5	42.0	37.0	22.0	37.5	-	1.0	80	360	1080	6.8	24	30.5	8.5	2	PF455%40340A1x
5.0	42.0	44.0	24.0	37.5	-	1.0	80	400	1200	6.0	24	27.7	9.5	2	PF505%40340A1x
5.5	42.0	44.0	24.0	37.5	-	1.0	80	440	1320	5.5	24	27.3	10.0	2	PF555%40340A1x
6.0	42.0	43.0	28.0	37.5	-	1.0	80	480	1440	4.8	26	28.3	10.5	2	PF605%40320A1x
6.5	42.0	43.0	28.0	37.5	-	1.0	80	520	1560	4.6	26	29.6	10.5	2	PF655%40320A1x
7.0	42.0	43.0	28.0	37.5	-	1.0	80	560	1680	4.4	26	28.2	11.0	2	PF705%40320A1x
7.5	42.0	45.0	30.0	37.5	-	1.0	80	600	1800	4.4	26	28.2	11.0	2	PF755%40320A1x
8.0	42.0	45.0	30.0	37.5	-	1.0	80	640	1920	4.2	26	27.0	11.5	2	PF805%40320A1x
9.0	42.0	50.0	35.0	37.5	20.3	1.2	80	720	2160	4.0	28	24.0	12.5	4	PF905%40340A1x
10	42.0	50.0	35.0	37.5	20.3	1.2	80	800	2400	3.6	28	21.3	14.0	4	PF106%40340A1x
10	57.5	45.0	30.0	52.5	20.3	1.2	50	500	1500	4.2	30	22.9	12.5	4	PF106%40540A1x
12	57.5	50.0	35.0	52.5	20.3	1.2	50	600	1800	3.8	32	20.1	14.0	4	PF126%40540A1x
14	57.5	50.0	35.0	52.5	20.3	1.2	50	700	2100	3.6	32	16.3	16.0	4	PF146%40540A1x
18	57.5	57.5	38.0	52.5	20.3	1.2	50	900	2700	3.0	32	12.5	20.0	4	PF186%40540A1x
20	57.5	55.0	45.0	52.5	20.3	1.2	50	1000	3000	2.8	32	11.1	22.0	4	PF206%40540A1x
22	57.5	65.0	45.0	52.5	20.3	1.2	50	1100	3300	2.5	32	10.4	24.0	4	PF226%40540A1x
25	57.5	65.0	45.0	52.5	20.3	1.2	50	1250	3750	2.2	32	10.1	26.0	4	PF256%40540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 500VAC (50)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
0.22	32.0	18.0	9.0	27.5	-	0.8	140	31	92	45.0	16	148.1	1.5	2	PF224%50220A1x
0.27	32.0	18.0	9.0	27.5	-	0.8	140	38	113	40.0	16	146.5	1.6	2	PF274%50220A1x
0.33	32.0	20.0	11.0	27.5	-	0.8	140	46	139	24.0	16	100.0	2.5	2	PF334%50220A1x
0.39	32.0	20.0	11.0	27.5	-	0.8	140	55	164	24.0	16	100.0	2.5	2	PF394%50220A1x
0.47	32.0	22.0	13.0	27.5	-	0.8	140	66	197	21.5	16	89.0	2.8	2	PF474%50220A1x
0.56	32.0	22.0	13.0	27.5	-	0.8	140	78	235	20.5	16	81.3	3.0	2	PF564%50220A1x
0.68	32.0	24.5	15.0	27.5	-	0.8	140	95	286	15.5	16	79.0	3.5	2	PF684%50220A1x
0.82	32.0	28.0	18.0	27.5	-	0.8	140	115	344	12.5	18	52.1	4.8	2	PF824%50220A1x
1.0	32.0	33.0	18.0	27.5	-	0.8	140	140	420	9.0	20	46.3	6.0	2	PF105%50220A1x
1.2	32.0	33.0	18.0	27.5	-	0.8	140	168	504	9.0	20	46.3	6.0	2	PF125%50220A1x
1.5	32.0	37.0	22.0	27.5	-	1.0	140	210	630	8.5	22	36.0	7.0	2	PF155%50220A1x
1.8	32.0	37.0	22.0	27.5	-	1.0	140	252	756	7.8	22	34.2	7.5	2	PF185%50220A1x
1.0	42.0	30.0	16.0	37.5	-	1.0	90	90	270	12.8	24	57.9	4.5	2	PF105%50320A1x
1.2	42.0	30.0	16.0	37.5	-	1.0	90	108	324	12.5	24	52.1	4.8	2	PF125%50320A1x
1.5	42.0	30.0	16.0	37.5	-	1.0	90	135	405	11.8	24	47.0	5.2	2	PF155%50320A1x
1.8	42.0	32.0	19.0	37.5	-	1.0	90	162	486	9.0	24	46.3	6.0	2	PF185%50320A1x
2.0	42.0	32.0	19.0	37.5	-	1.0	90	180	540	8.6	24	41.3	6.5	2	PF205%50320A1x
2.5	42.0	37.0	22.0	37.5	-	1.0	90	225	675	8.0	24	38.3	7.0	2	PF255%50340A1x
2.8	42.0	37.0	22.0	37.5	-	1.0	90	252	756	7.0	24	33.5	8.0	2	PF285%50340A1x
3.0	42.0	37.0	22.0	37.5	-	1.0	90	270	810	6.8	24	30.5	8.5	2	PF305%50340A1x
3.5	42.0	44.0	24.0	37.5	-	1.0	90	315	945	6.0	24	27.7	9.5	2	PF355%50340A1x
4.0	42.0	43.0	28.0	37.5	-	1.0	90	360	1080	4.8	26	28.3	10.5	2	PF405%50320A1x
4.5	42.0	43.0	28.0	37.5	-	1.0	90	405	1215	4.8	26	28.3	10.5	2	PF455%50320A1x
5.0	42.0	45.0	30.0	37.5	-	1.0	90	450	1350	4.5	26	27.5	11.0	2	PF505%50320A1x
5.5	42.0	50.0	35.0	37.5	20.3	1.2	90	495	1485	4.2	28	22.9	12.5	4	PF555%50340A1x
6.0	42.0	50.0	35.0	37.5	20.3	1.2	90	540	1620	3.8	28	20.1	14.0	4	PF605%50340A1x
7.0	57.5	45.0	30.0	52.5	20.3	1.2	60	420	1260	4.2	30	22.9	12.5	4	PF705%50540A1x
8.0	57.5	50.0	35.0	52.5	20.3	1.2	60	480	1440	3.8	32	20.1	14.0	4	PF805%50540A1x
9.0	57.5	50.0	35.0	52.5	20.3	1.2	60	540	1620	3.6	32	16.3	16.0	4	PF905%50540A1x
10	57.5	57.5	38.0	52.5	20.3	1.2	60	600	1800	3.4	32	13.6	18.0	4	PF106%50540A1x
12	57.5	57.5	38.0	52.5	20.3	1.2	60	720	2160	3.2	32	11.7	20.0	4	PF126%50540A1x
15	57.5	65.0	45.0	52.5	20.3	1.2	60	900	2700	3.0	32	10.3	22.0	4	PF156%50540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 600VAC (60)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
0.15	32.0	18.0	9.0	27.5	-	0.8	160	24	72	45.0	16	148.1	1.5	2	PF154%60220A1x
0.22	32.0	20.0	11.0	27.5	-	0.8	160	35	106	24.0	16	100.0	2.5	2	PF224%60220A1x
0.33	32.0	22.0	13.0	27.5	-	0.8	160	53	158	21.5	16	89.0	2.8	2	PF334%60220A1x
0.47	32.0	24.5	15.0	27.5	-	0.8	160	75	226	15.5	16	94.5	3.2	2	PF474%60220A1x
0.56	32.0	28.0	14.0	27.5	-	0.8	160	90	269	12.5	18	75.0	4.0	2	PF564%60220A1x
0.68	32.0	28.0	18.0	27.5	-	0.8	160	109	326	10.8	18	60.3	4.8	2	PF684%60220A1x
0.82	32.0	33.0	18.0	27.5	-	0.8	160	131	394	7.0	20	59.5	6.0	2	PF824%60220A1x
1.0	32.0	33.0	18.0	27.5	-	0.8	160	160	480	7.0	20	59.5	6.0	2	PF105%60220A1x
1.2	32.0	37.0	22.0	27.5	-	1.0	160	192	576	5.8	22	52.8	7.0	2	PF125%60220A1x
1.0	42.0	30.0	16.0	37.5	-	1.0	100	100	300	12.8	24	57.9	4.5	2	PF105%60320A1x
1.2	42.0	32.0	19.0	37.5	-	1.0	100	120	360	8.8	24	47.3	6.0	2	PF125%60320A1x
1.5	42.0	32.0	19.0	37.5	-	1.0	100	150	450	8.6	24	41.3	6.5	2	PF155%60320A1x
1.8	42.0	37.0	22.0	37.5	-	1.0	100	180	540	8.0	24	38.3	7.0	2	PF185%60340A1x
2.0	42.0	37.0	22.0	37.5	-	1.0	100	200	600	7.0	24	33.5	8.0	2	PF205%60340A1x
2.2	42.0	44.0	24.0	37.5	-	1.0	100	220	660	6.5	24	28.5	9.0	2	PF225%60340A1x
2.5	42.0	44.0	24.0	37.5	-	1.0	100	250	750	6.0	24	27.7	9.5	2	PF255%60340A1x
2.8	42.0	43.0	28.0	37.5	-	1.0	100	280	840	5.5	26	27.3	10.0	2	PF285%60320A1x
3.0	42.0	45.0	30.0	37.5	-	1.0	100	300	900	5.0	26	27.2	10.5	2	PF305%60320A1x
3.5	42.0	50.0	35.0	37.5	20.3	1.2	100	350	1050	4.5	28	21.3	12.5	4	PF335%60340A1x
4.0	42.0	50.0	35.0	37.5	20.3	1.2	100	400	1200	4.0	28	19.1	14.0	4	PF405%60340A1x
4.5	57.5	45.0	30.0	52.5	20.3	1.2	70	315	945	4.5	30	21.3	12.5	4	PF455%60540A1x
5.0	57.5	45.0	30.0	52.5	20.3	1.2	70	350	1050	4.2	30	19.6	13.5	4	PF505%60540A1x
6.0	57.5	50.0	35.0	52.5	20.3	1.2	70	420	1260	4.0	32	19.1	14.0	4	PF605%60540A1x
6.5	57.5	50.0	35.0	52.5	20.3	1.2	70	455	1365	3.8	32	15.4	16.0	4	PF655%60540A1x
7.0	57.5	57.5	38.0	52.5	20.3	1.2	70	490	1470	3.6	32	12.9	18.0	4	PF705%60540A1x
7.5	57.5	57.5	38.0	52.5	20.3	1.2	70	525	1575	3.4	32	12.2	19.0	4	PF755%60540A1x
8.0	57.5	57.5	38.0	52.5	20.3	1.2	70	560	1680	3.2	32	11.7	20.0	4	PF805%60540A1x
10	57.5	65.0	45.0	52.5	20.3	1.2	70	700	2100	3.0	32	10.3	22.0	4	PF106%60540A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 760VAC (76)

CAP	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
(uF)	L	H	T	P	P1	d	(V/us)	(A)	(A)	(mΩ)	(nH)	(°C/W)	(A)		
0.1	32.0	18.0	9.0	27.5	-	0.8	200	20	60	45.0	16	148.1	1.5	2	PF104%76220A1x
0.15	32.0	20.0	11.0	27.5	-	0.8	200	30	90	24.0	16	100.0	2.5	2	PF154%76220A1x
0.22	32.0	22.0	13.0	27.5	-	0.8	200	44	132	21.5	16	89.0	2.8	2	PF224%76220A1x
0.33	32.0	24.5	15.0	27.5	-	0.8	200	66	198	15.5	16	94.5	3.2	2	PF334%76220A1x
0.47	32.0	28.0	18.0	27.5	-	0.8	200	94	282	12.0	18	61.7	4.5	2	PF474%76220A1x
0.56	32.0	33.0	18.0	27.5	-	0.8	200	112	336	10.5	20	57.1	5.0	2	PF564%76220A1x
0.68	32.0	37.0	22.0	27.5	-	1.0	200	136	408	9.5	22	43.9	6.0	2	PF684%76221A1x
0.68	42.0	30.0	16.0	37.5	-	1.0	120	82	245	12.8	24	57.9	4.5	2	PF684%76222A1x
0.82	42.0	32.0	19.0	37.5	-	1.0	120	98	295	10.0	24	49.6	5.5	2	PF824%76220A1x
1.0	42.0	32.0	19.0	37.5	-	1.0	120	120	360	9.0	24	39.4	6.5	2	PF105%76220A1x
1.2	42.0	37.0	22.0	37.5	-	1.0	120	144	432	8.5	24	36.0	7.0	2	PF125%76240A1x
1.5	42.0	44.0	24.0	37.5	-	1.0	120	180	540	7.5	24	31.3	8.0	2	PF155%76240A1x
1.8	42.0	43.0	28.0	37.5	-	1.0	120	216	648	6.5	26	25.6	9.5	2	PF185%76320A1x
2.0	42.0	45.0	30.0	37.5	-	1.0	120	240	720	5.0	26	27.2	10.5	2	PF205%76320A1x
2.5	42.0	50.0	35.0	37.5	20.3	1.2	120	300	900	4.5	28	21.3	12.5	4	PF255%76340A1x
3.0	57.5	45.0	30.0	52.5	20.3	1.2	80	240	720	4.5	30	21.3	12.5	4	PF305%76340A1x
4.0	57.5	50.0	35.0	52.5	20.3	1.2	80	320	960	4.0	32	19.1	14.0	4	PF405%76340A1x
5.0	57.5	57.5	38.0	52.5	20.3	1.2	80	400	1200	3.6	32	16.3	16.0	4	PF505%76340A1x
6.0	57.5	55.0	45.0	52.5	20.3	1.2	80	480	1440	3.4	32	13.6	18.0	4	PF605%76340A1x
7.0	57.5	65.0	45.0	52.5	20.3	1.2	80	560	1680	3.2	32	11.7	20.0	4	PF705%76340A1x

Note: % denoted to tolerance: ±5%(J), ±10%(K) at 25°C, x denoted to option code, see the parts number system

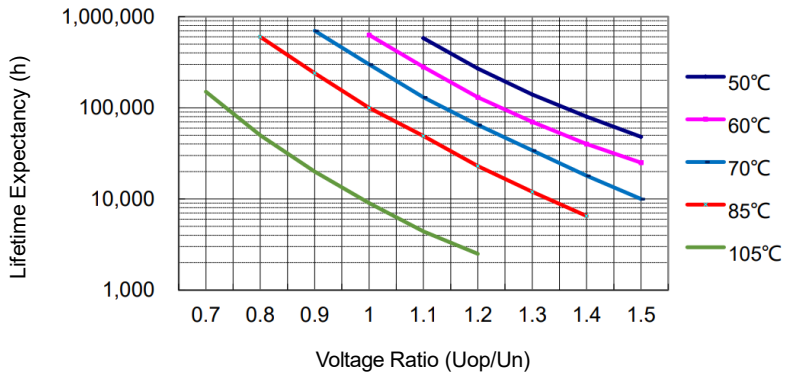
ENVIRONMENTAL TEST

Item	Test Condition	Performance
High Temperature Loading	Temperature: +85 ±2 °C, Apply 125% of Rated Voltage for 1,000 +24/0 hours. Duration: 500 hours, 1000 charges and discharges at 1.3 x I peak (Maximum respective peak current in continuous operation), measurement at 24 ±4 hours after test.	△C/C: ≤ ± 5% DF: ≤ $50*10^{-4}$ at 1 KHz IR: ≥ 50% of initial limit
Rapid Temperature Change	High Temperature: +105 ±5°C, Low Temperature: -40 ±5°C Temperature Cycle: Total 5 cycles, 30 min ± 10% for each temperature	△C/C: ≤ ± 5% DF: ≤ $50*10^{-4}$ at 1 KHz IR: ≥ 50% of initial limit
Humidity Resistance	Temperature: +40 ±2°C RH: 90% to 95%, Duration: 1344 +24/0 hours	△C/C: ≤ ± 5% DF: ≤ $50*10^{-4}$ at 1 KHz IR: ≥ 50% of initial limit
Solderability	Soldering temperature: +245 ±5°C, Immersion duration: 2 ±0.5 sec	More than 95% of Coverage
Soldering Heat Resistance	Preheat temperature 100°C~120°C, Preheat Duration: 100 sec max Soldering Temperature: +260 ±5°C, Immersion Duration: ≤10 sec, Depth: 1.5 ± 0.5 mm Soldering Temperature: +400°C, Immersion Duration: ≤3 sec Stabilized for 1.5 ±0.5hr at ordinary condition before making measurements	△C/C: ≤ ± 2% DF: ≤ $50*10^{-4}$ at 1 KHz IR: ≥ 50% of initial limit
Resistance to Solvent	Solvent: propanol (isopropyl alcohol) Temperature: 23 ±5°C, Immersion time: 5 ±0.5 minutes, Drying time: 5 minutes Mechanical treatment: 10 rubbing (with cotton-wool)	△C/C: ≤ ± 1% DF: ≤ $50*10^{-4}$ at 1 KHz IR: ≥ 50% of initial limit
Terminal Strength	Item / 0.50 < D ≤ 0.80mm / 0.80 < D ≤ 1.25mm / Condition Tension / 10N / 20N / Make two successive bends in each direction Bending / 5N / 10N	No visible damage
Vibration	Frequency Change: 10--55--10 Hz, Vibration Distance: 1.5 mm Direction: X, Y, Z, Duration: 2 +1/0 hours each direction	△C/C: ≤ ± 1% DF: ≤ $50*10^{-4}$ at 1 KHz IR: ≥ 50% of initial limit
Mechanical Shock	Pulse-shape: half-sine wave, Acceleration: 500 m/s2, Duration of pulse: 11 ms	
Bump	Total number of bumps: 1000 times or 4000 times, Acceleration: 400 m/s2 Pulse duration: 6 ms	

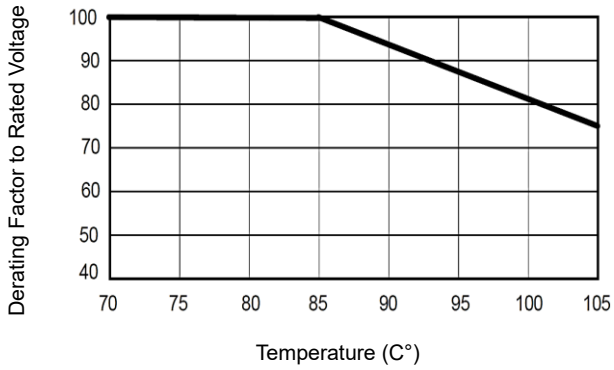
Notes:
1. Ambient Temp: 15°C to 35°C, Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
2. Storage needs to be kept indoors at -10~+40°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around
3. Do not apply and exceeding vibration, shock (dropping) and pressure
4. Reference Standards: IEC 60068-2, IEC 61071, IEC 68-2

CHARACTERISTIC CURVE

Lifetime Expectancy



Rated Voltage vs Temperature



*Specifications subject to change without notice.