

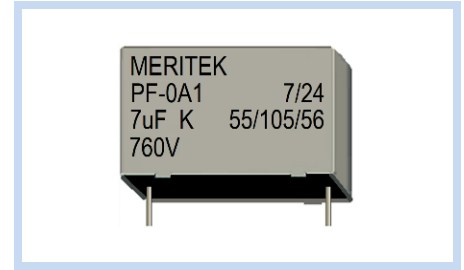
Power Film Capacitor, AC Filter
THB Grade 2000Hours
AEC-Q200

PF-0A1 Series

MERITEK

FEATURE

- Self-Healing Property
- High Ripple Current Capability
- Optimized AC Voltage Performance
- Applications: Renewable Energies Inverters, UPS, Battery Charger, Harmonic Filter, Power Factor Correction (PFC)
- THB-2000H, 85°C, 85% RH, VR, 2000h
- AEC-Q200 Compliant



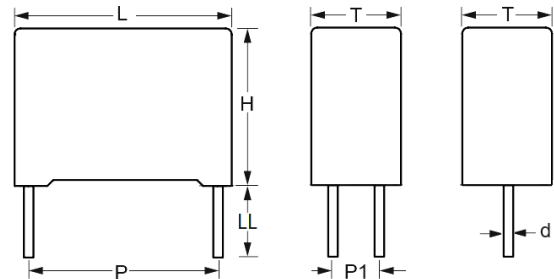
ELECTRICAL CHARACTERISTICS

Item	Characteristic							
Operating Temperature	-55~+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	55/105/56 IEC60068-1							
AC Operating 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%	
	30% of On-Load		30mins		5mins		1min	
Insulation Resistance	IR°C ≥ 30,000sec			Between leads, at 100 Vdc, 60 sec, at 25°C ±5°C°				
Withstanding Voltage	1.5* Vr V _{AC} for 10sec			Between terminations, at 25°C±5°C				
	3000V _{AC} , 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** **0A1** **5**
 (1) (2) (3) (4) (4) (4)

No	Item	Code	Description	
(1)	Product Code	PF	Metalized PP Film Capacitor, Double Sided, Box Type	
(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	5: 52.5mm pitch, 4: 4pins, 0: Case Code	See the electrical specification table below
(5)	Series Code	0A1	AC Filter Capacitor Series, Box Type, THB-2000H, 85°C, 85% RH, VR, 2000h, AEC-Q200	
(6)	Option Code	5	5: LL 5mm bulk package	Blank: LL: 15mm min, 4: LL 4mm, Bulk

ELECTRICAL SPECIFICATION – 180VAC (18)

CAP (μ F)	Dimensions (mm)						dv/dt (V/us)	Peak Current (A)	Surge Current (A)	ESR 10KHz (m Ω)	ESL (nH)	Thermal Res ($^{\circ}$ C/W)	Irms 10KHz 70 $^{\circ}$ C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
4.0	32.0	22.0	13.0	27.5	-	0.8	75	300	900	6.8	16	45.0	7.0	2	PF405%182200A1x
5.0	32.0	28.0	18.0	27.5	-	0.8	75	375	1125	5.5	18	42.6	8.0	2	PF505%182200A1x
6.8	32.0	33.0	18.0	27.5	-	0.8	75	510	1530	4.0	20	31.0	11.0	2	PF685%182200A1x
10	32.0	37.0	22.0	27.5	-	1.0	75	750	2250	2.8	22	31.7	13.0	2	PF106%182200A1x
10	42.0	32.0	19.0	37.5	-	1.0	45	450	1350	5.0	24	30.0	10.0	2	PF106%183200A1x
15	42.0	37.0	22.0	37.5	-	1.0	45	675	2025	3.5	24	21.9	14.0	2	PF156%183400A1x
18	42.0	44.0	24.0	37.5	-	1.0	45	810	2430	2.8	24	27.3	14.0	2	PF186%183400A1x
20	42.0	44.0	24.0	37.5	-	1.0	45	900	2700	2.5	24	26.7	15.0	2	PF206%183200A1x
22	42.0	44.0	24.0	37.5	-	1.0	45	990	2970	2.2	26	30.3	15.0	2	PF226%183200A1x
25	42.0	45.0	30.0	37.5	-	1.0	45	1125	3375	2.0	26	33.3	15.0	2	PF256%183200A1x
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%183200A1x
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%183200A1x
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%185400A1x
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%185400A1x
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%185400A1x

Note: % denoted to tolerance: $\pm 5\%$ (J), $\pm 10\%$ (K) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 250VAC (25)

CAP (μ F)	Dimensions (mm)						dv/dt (V/us)	Peak Current (A)	Surge Current (A)	ESR 10KHz (m Ω)	ESL (nH)	Thermal Rth ($^{\circ}$ C/W)	Irms 10KHz 70 $^{\circ}$ C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
1.0	32.0	18.0	9.0	27.5	-	0.8	90	90	270	16.5	16	101.0	3.0	2	PF105%252200A1x
1.5	32.0	20.0	11.0	27.5	-	0.8	90	135	405	10.5	16	89.3	4.0	2	PF155%252200A1x
2.0	32.0	22.0	13.0	27.5	-	0.8	90	180	540	8.5	16	70.6	5.0	2	PF205%252200A1x
2.2	32.0	22.0	13.0	27.5	-	0.8	90	198	594	7.8	16	53.4	6.0	2	PF225%252200A1x
2.5	32.0	22.0	13.0	27.5	-	0.8	90	225	675	7.5	16	55.6	6.0	2	PF255%252200A1x
3.0	32.0	24.5	15.0	27.5	-	0.8	90	270	810	6.5	16	47.1	7.0	2	PF305%252200A1x
3.3	32.0	24.5	15.0	27.5	-	0.8	90	297	891	6.2	16	37.8	8.0	2	PF335%252200A1x
3.5	32.0	28.0	14.0	27.5	-	0.8	90	315	945	5.8	18	40.4	8.0	2	PF355%252200A1x
4.0	32.0	28.0	18.0	27.5	-	0.8	90	360	1080	4.8	20	31.3	10.0	2	PF405%252200A1x
4.5	32.0	33.0	18.0	27.5	-	0.8	90	405	1215	4.5	20	33.3	10.0	2	PF455%252200A1x
5.0	32.0	33.0	18.0	27.5	-	0.8	90	450	1350	4.0	20	31.0	11.0	2	PF505%252200A1x
6.8	32.0	37.0	22.0	27.5	-	1.0	90	612	1836	2.8	22	27.3	14.0	2	PF106%253200A1x
4.7	42.0	30.0	16.0	37.5	-	1.0	60	282	846	7.5	24	40.8	7.0	2	PF475%253200A1x
5.0	42.0	30.0	16.0	37.5	-	1.0	60	300	900	7.0	24	33.5	8.0	2	PF505%253200A1x
6.0	42.0	30.0	16.0	37.5	-	1.0	60	360	1080	6.0	24	30.9	9.0	2	PF605%253200A1x
6.5	42.0	30.0	16.0	37.5	-	1.0	60	390	1170	5.6	24	26.8	10.0	2	PF655%253200A1x
6.8	42.0	32.0	19.0	37.5	-	1.0	60	408	1224	5.4	24	25.2	10.5	2	PF685%253200A1x
7.5	42.0	32.0	19.0	37.5	-	1.0	60	450	1350	5.0	24	24.8	11.0	2	PF755%253200A1x
8.0	42.0	37.0	22.0	37.5	-	1.0	60	480	1440	4.5	24	23.1	12.0	2	PF805%253400A1x
10	42.0	37.0	22.0	37.5	-	1.0	60	600	1800	3.6	24	24.7	13.0	2	PF106%253400A1x
12	42.0	44.0	24.0	37.5	-	1.0	60	720	2160	3.0	24	25.5	14.0	2	PF126%253400A1x
15	42.0	44.0	24.0	37.5	-	1.0	60	900	2700	2.5	24	30.6	14.0	2	PF156%253200A1x
18	42.0	43.0	28.0	37.5	-	1.0	60	1080	3240	2.2	26	30.3	15.0	2	PF186%253200A1x
20	42.0	45.0	30.0	37.5	-	1.0	60	1200	3600	2.0	26	33.3	15.0	2	PF206%253200A1x
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%253400A1x
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%255400A1x
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%255400A1x
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%255400A1x
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%255400A1x

Note: % denoted to tolerance: $\pm 5\%$ (J), $\pm 10\%$ (K) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 300VAC(30)

CAP (μ F)	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
	L	H	T	P	P1	d	(V/us)	(A)	(A)	(m Ω)	(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%302200A1x
1.5	32.0	22.0	13.0	27.5	-	0.8	90	135	405	8.5	16	70.6	5.0	2	PF155%302200A1x
2.0	32.0	24.5	15.0	27.5	-	0.8	90	180	540	7.5	16	55.6	6.0	2	PF205%302200A1x
2.2	32.0	24.5	15.0	27.5	-	0.8	90	198	594	6.8	16	45.0	7.0	2	PF225%302200A1x
2.5	32.0	28.0	14.0	27.5	-	0.8	90	225	675	6.5	18	36.1	8.0	2	PF255%302200A1x
3.0	32.0	28.0	18.0	27.5	-	0.8	90	270	810	6.0	20	30.9	9.0	2	PF305%302200A1x
3.3	32.0	33.0	18.0	27.5	-	0.8	90	297	891	4.8	20	31.3	10.0	2	PF335%302200A1x
3.5	32.0	33.0	18.0	27.5	-	0.8	90	315	945	4.6	20	29.6	10.5	2	PF355%302200A1x
4.0	32.0	33.0	18.0	27.5	-	0.8	90	360	1080	4.2	20	29.5	11.0	2	PF405%302200A1x
4.7	32.0	37.0	22.0	27.5	-	1.0	90	423	1269	3.8	22	23.4	13.0	2	PF475%302200A1x
5.0	32.0	37.0	22.0	27.5	-	1.0	90	450	1350	3.6	22	22.9	13.5	2	PF505%302200A1x
5.6	32.0	37.0	22.0	27.5	-	1.0	90	504	1512	3.0	22	25.5	14.0	2	PF565%302200A1x
3.0	42.0	30.0	16.0	37.5	-	1.0	60	180	540	9.0	24	46.3	6.0	2	PF305%303200A1x
3.3	42.0	30.0	16.0	37.5	-	1.0	60	198	594	8.5	24	36.0	7.0	2	PF335%303200A1x
3.5	42.0	30.0	16.0	37.5	-	1.0	60	210	630	8.0	24	38.3	7.0	2	PF355%303200A1x
4.0	42.0	30.0	16.0	37.5	-	1.0	60	240	720	6.8	24	34.5	8.0	2	PF405%303200A1x
4.5	42.0	30.0	16.0	37.5	-	1.0	60	270	810	6.0	24	30.9	9.0	2	PF455%303200A1x
4.7	42.0	30.0	16.0	37.5	-	1.0	60	282	846	5.8	24	31.9	9.0	2	PF475%303200A1x
5.0	42.0	32.0	19.0	37.5	-	1.0	60	300	900	5.5	24	27.3	10.0	2	PF505%303200A1x
6.0	42.0	32.0	19.0	37.5	-	1.0	60	360	1080	5.0	24	24.8	11.0	2	PF605%303200A1x
6.8	42.0	37.0	22.0	37.5	-	1.0	60	408	1224	4.5	24	23.1	12.0	2	PF685%303400A1x
8.0	42.0	37.0	22.0	37.5	-	1.0	60	480	1440	3.6	24	24.7	13.0	2	PF805%303400A1x
10	42.0	44.0	24.0	37.5	-	1.0	60	600	1800	3.0	24	25.5	14.0	2	PF106%303400A1x
12	42.0	43.0	28.0	37.5	-	1.0	60	720	2160	2.4	26	27.8	15.0	2	PF126%303200A1x
15	42.0	45.0	30.0	37.5	-	1.0	60	900	2700	2.2	26	30.3	15.0	2	PF156%303200A1x
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%303400A1x
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%305400A1x
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%305400A1x
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%305400A1x
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%305400A1x

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

ELECTRICAL SPECIFICATION – 350VAC (35)

CAP (μ F)	Dimensions (mm)						dv/dt (V/us)	Peak Current (A)	Surge Current (A)	ESR 10KHz (m Ω)	ESL (nH)	Thermal Rth ($^{\circ}$ C/W)	Irms 10KHz 70 $^{\circ}$ C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
0.33	32.0	18.0	9.0	27.5	-	0.8	100	33	99	45.0	16	148.1	1.5	2	PF334%352200A1x
0.39	32.0	18.0	9.0	27.5	-	0.8	100	39	117	40.0	16	146.5	1.6	2	PF394%352200A1x
0.47	32.0	18.0	9.0	27.5	-	0.8	100	47	141	35.0	16	107.1	2.0	2	PF474%352200A1x
0.68	32.0	20.0	11.0	27.5	-	0.8	100	68	204	24.0	16	100.0	2.5	2	PF684%352200A1x
0.82	32.0	22.0	13.0	27.5	-	0.8	100	82	246	20.5	16	81.3	3.0	2	PF824%352200A1x
1.0	32.0	22.0	13.0	27.5	-	0.8	100	100	300	15.5	16	94.5	3.2	2	PF105%352200A1x
1.5	32.0	24.5	15.0	27.5	-	0.8	100	150	450	13.0	16	72.1	4.0	2	PF155%352200A1x
2.0	32.0	28.0	18.0	27.5	-	0.8	100	200	600	10.8	18	60.3	4.8	2	PF205%352200A1x
2.2	32.0	28.0	18.0	27.5	-	0.8	100	220	660	10.2	18	58.8	5.0	2	PF225%352200A1x
2.5	32.0	33.0	18.0	27.5	-	0.8	100	250	750	7.0	20	59.5	6.0	2	PF255%352200A1x
3.0	32.0	37.0	22.0	27.5	-	1.0	100	300	900	5.8	22	52.8	7.0	2	PF305%352200A1x
3.3	32.0	37.0	22.0	27.5	-	1.0	100	330	990	5.2	22	51.3	7.5	2	PF335%352200A1x
3.5	32.0	37.0	22.0	27.5	-	1.0	100	350	1050	5.0	22	49.3	7.8	2	PF355%352200A1x
4.0	32.0	37.0	22.0	27.5	-	1.0	100	400	1200	4.5	22	52.1	8.0	2	PF405%352200A1x
2.0	42.0	30.0	16.0	37.5	-	1.0	70	140	420	12.8	24	57.9	4.5	2	PF205%353200A1x
2.2	42.0	30.0	16.0	37.5	-	1.0	70	154	462	12.5	24	52.1	4.8	2	PF225%353200A1x
2.5	42.0	30.0	16.0	37.5	-	1.0	70	175	525	11.8	24	47.0	5.2	2	PF255%353200A1x
3.0	42.0	30.0	16.0	37.5	-	1.0	70	210	630	10.8	24	45.9	5.5	2	PF305%353200A1x
3.3	42.0	30.0	16.0	37.5	-	1.0	70	231	693	8.8	24	47.3	6.0	2	PF335%353200A1x
3.5	42.0	30.0	16.0	37.5	-	1.0	70	245	735	8.6	24	41.3	6.5	2	PF355%353200A1x
4.0	42.0	32.0	19.0	37.5	-	1.0	70	280	840	8.0	24	38.3	7.0	2	PF405%353200A1x
4.5	42.0	37.0	22.0	37.5	-	1.0	70	315	945	7.0	24	33.5	8.0	2	PF455%353400A1x
5.0	42.0	37.0	22.0	37.5	-	1.0	70	350	1050	6.8	24	30.5	8.5	2	PF505%353400A1x
5.5	42.0	37.0	22.0	37.5	-	1.0	70	385	1155	6.4	24	30.3	8.8	2	PF555%353400A1x
6.0	42.0	44.0	24.0	37.5	-	1.0	70	420	1260	6.0	24	27.7	9.5	2	PF605%353400A1x
6.5	42.0	44.0	24.0	37.5	-	1.0	70	455	1365	5.5	24	27.3	10.0	2	PF655%353400A1x
7.0	42.0	44.0	24.0	37.5	-	1.0	70	490	1470	5.2	24	26.2	10.5	2	PF705%353400A1x
8.0	42.0	44.0	24.0	37.5	-	1.0	70	560	1680	5.2	24	26.2	10.5	2	PF805%353400A1x
8.5	42.0	43.0	28.0	37.5	-	1.0	70	595	1785	4.8	26	25.8	11.0	2	PF855%353200A1x
9.0	42.0	43.0	28.0	37.5	-	1.0	70	630	1890	4.6	26	26.9	11.0	2	PF905%353200A1x
9.5	42.0	45.0	30.0	37.5	-	1.0	70	665	1995	4.4	26	25.8	11.5	2	PF955%353200A1x
10	42.0	45.0	30.0	37.5	-	1.0	70	700	2100	4.2	26	24.8	12.0	2	PF106%353200A1x
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%353400A1x
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%355400A1x
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%355400A1x
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%355400A1x
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%355400A1x
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%355400A1x
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%355400A1x

Note: % denoted to tolerance: $\pm 5\%$ (J), $\pm 10\%$ (K) at 25 $^{\circ}$ C, x denoted to option code, see the parts number system

ELECTRICAL SPECIFICATION – 400VAC (40)

CAP	Dimensions (mm)						dv/dt (V/us)	Peak Current (A)	Surge Current (A)	ESR 10KHz (mΩ)	ESL (nH)	Thermal Rth (°C/W)	Irms 10KHz 70°C (A)	No of Pin	Part Number
	(uF)	L	H	T	P	P1									
0.33	32.0	18.0	9.0	27.5	-	0.8	120	40	119	45.0	16	148.1	1.5	2	PF334%402200A1x
0.39	32.0	18.0	9.0	27.5	-	0.8	120	47	140	40.0	16	146.5	1.6	2	PF394%402200A1x
0.47	32.0	18.0	9.0	27.5	-	0.8	120	56	169	35.0	16	107.1	2.0	2	PF474%402200A1x
0.68	32.0	20.0	11.0	27.5	-	0.8	120	82	245	24.0	16	100.0	2.5	2	PF684%402200A1x
0.82	32.0	22.0	13.0	27.5	-	0.8	120	98	295	20.5	16	81.3	3.0	2	PF824%402200A1x
1.0	32.0	24.0	14.0	27.5	-	0.8	120	120	360	15.5	16	94.5	3.2	2	PF105%402200A1x
1.5	32.0	28.0	18.0	27.5	-	0.8	120	180	540	10.8	18	60.3	4.8	2	PF155%402200A1x
2.0	32.0	33.0	18.0	27.5	-	0.8	120	240	720	7.0	20	59.5	6.0	2	PF205%402200A1x
2.2	32.0	33.0	18.0	27.5	-	0.8	120	264	792	7.0	20	59.5	6.0	2	PF225%402200A1x
2.5	32.0	37.0	22.0	27.5	-	1.0	120	300	900	5.8	22	52.8	7.0	2	PF255%402200A1x
3.0	32.0	37.0	22.0	27.5	-	1.0	120	360	1080	5.2	22	51.3	7.5	2	PF305%402200A1x
2.0	42.0	30.0	16.0	37.5	-	1.0	80	160	480	12.8	24	57.9	4.5	2	PF205%403200A1x
2.2	42.0	30.0	16.0	37.5	-	1.0	80	176	528	12.5	24	52.1	4.8	2	PF225%403200A1x
2.5	42.0	30.0	16.0	37.5	-	1.0	80	200	600	11.8	24	47.0	5.2	2	PF255%403200A1x
3.0	42.0	32.0	19.0	37.5	-	1.0	80	240	720	8.8	24	47.3	6.0	2	PF305%403200A1x
3.3	42.0	32.0	19.0	37.5	-	1.0	80	264	792	8.6	24	41.3	6.5	2	PF335%403200A1x
3.5	42.0	37.0	22.0	37.5	-	1.0	80	280	840	8.0	24	38.3	7.0	2	PF355%403400A1x
4.0	42.0	37.0	22.0	37.5	-	1.0	80	320	960	7.0	24	33.5	8.0	2	PF405%403400A1x
4.5	42.0	37.0	22.0	37.5	-	1.0	80	360	1080	6.8	24	30.5	8.5	2	PF455%403400A1x
5.0	42.0	44.0	24.0	37.5	-	1.0	80	400	1200	6.0	24	27.7	9.5	2	PF505%403400A1x
5.5	42.0	44.0	24.0	37.5	-	1.0	80	440	1320	5.5	24	27.3	10.0	2	PF555%403400A1x
6.0	42.0	43.0	28.0	37.5	-	1.0	80	480	1440	4.8	26	28.3	10.5	2	PF605%403200A1x
6.5	42.0	43.0	28.0	37.5	-	1.0	80	520	1560	4.6	26	29.6	10.5	2	PF655%403200A1x
7.0	42.0	43.0	28.0	37.5	-	1.0	80	560	1680	4.4	26	28.2	11.0	2	PF705%403200A1x
7.5	42.0	45.0	30.0	37.5	-	1.0	80	600	1800	4.4	26	28.2	11.0	2	PF755%403200A1x
8.0	42.0	45.0	30.0	37.5	-	1.0	80	640	1920	4.2	26	27.0	11.5	2	PF805%403200A1x
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%403400A1x
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%403400A1x
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%405400A1x
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%405400A1x
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%405400A1x
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%405400A1x
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%405400A1x
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%405400A1x
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%405400A1x

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 (μ F)	Dimensions (mm)						dv/dt	Peak Current	Surge Current	ESR 10KHz	ESL	Thermal Rth	Irms 10KHz 70°C	No of Pin	Part Number
	L	H	T	P	P1	d	(V/us)	(A)	(A)	(m Ω)	(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%502200A1x
0.27	32.0	18.0	9.0	27.5	-	0.8	140	38	113	40.0	16	146.5	1.6	2	PF274%502200A1x
0.33	32.0	20.0	11.0	27.5	-	0.8	140	46	139	24.0	16	100.0	2.5	2	PF334%502200A1x
0.39	32.0	20.0	11.0	27.5	-	0.8	140	55	164	24.0	16	100.0	2.5	2	PF394%502200A1x
0.47	32.0	22.0	13.0	27.5	-	0.8	140	66	197	21.5	16	89.0	2.8	2	PF474%502200A1x
0.56	32.0	22.0	13.0	27.5	-	0.8	140	78	235	20.5	16	81.3	3.0	2	PF564%502200A1x
0.68	32.0	24.5	15.0	27.5	-	0.8	140	95	286	15.5	16	79.0	3.5	2	PF684%502200A1x
0.82	32.0	28.0	18.0	27.5	-	0.8	140	115	344	12.5	18	52.1	4.8	2	PF824%502200A1x
1.0	32.0	33.0	18.0	27.5	-	0.8	140	140	420	9.0	20	46.3	6.0	2	PF105%502200A1x
1.2	32.0	33.0	18.0	27.5	-	0.8	140	168	504	9.0	20	46.3	6.0	2	PF125%502200A1x
1.5	32.0	37.0	22.0	27.5	-	1.0	140	210	630	8.5	22	36.0	7.0	2	PF155%502200A1x
1.8	32.0	37.0	22.0	27.5	-	1.0	140	252	756	7.8	22	34.2	7.5	2	PF185%502200A1x
1.0	42.0	30.0	16.0	37.5	-	1.0	90	90	270	12.8	24	57.9	4.5	2	PF105%503200A1x
1.2	42.0	30.0	16.0	37.5	-	1.0	90	108	324	12.5	24	52.1	4.8	2	PF125%503200A1x
1.5	42.0	30.0	16.0	37.5	-	1.0	90	135	405	11.8	24	47.0	5.2	2	PF155%503200A1x
1.8	42.0	32.0	19.0	37.5	-	1.0	90	162	486	9.0	24	46.3	6.0	2	PF185%503200A1x
2.0	42.0	32.0	19.0	37.5	-	1.0	90	180	540	8.6	24	41.3	6.5	2	PF205%503200A1x
2.5	42.0	37.0	22.0	37.5	-	1.0	90	225	675	8.0	24	38.3	7.0	2	PF255%503400A1x
2.8	42.0	37.0	22.0	37.5	-	1.0	90	252	756	7.0	24	33.5	8.0	2	PF285%503400A1x
3.0	42.0	37.0	22.0	37.5	-	1.0	90	270	810	6.8	24	30.5	8.5	2	PF305%503400A1x
3.5	42.0	44.0	24.0	37.5	-	1.0	90	315	945	6.0	24	27.7	9.5	2	PF355%503400A1x
4.0	42.0	43.0	28.0	37.5	-	1.0	90	360	1080	4.8	26	28.3	10.5	2	PF405%503200A1x
4.5	42.0	43.0	28.0	37.5	-	1.0	90	405	1215	4.8	26	28.3	10.5	2	PF455%503200A1x
5.0	42.0	45.0	30.0	37.5	-	1.0	90	450	1350	4.5	26	27.5	11.0	2	PF505%503200A1x
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%503400A1x
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%503400A1x
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%505400A1x
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%505400A1x
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%505400A1x
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%505400A1x
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%505400A1x
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%505400A1x

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

ELECTRICAL SPECIFICATION – 600VAC (60)

CAP (uF)	Dimensions (mm)						dv/dt (V/us)	Peak Current (A)	Surge Current (A)	ESR 10KHz (mΩ)	ESL (nH)	Thermal Rth (°C/W)	Irms 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
0.15	32.0	18.0	9.0	27.5	-	0.8	160	24	72	45.0	16	148.1	1.5	2	PF154%602200A1x
0.22	32.0	20.0	11.0	27.5	-	0.8	160	35	106	24.0	16	100.0	2.5	2	PF224%602200A1x
0.33	32.0	22.0	13.0	27.5	-	0.8	160	53	158	21.5	16	89.0	2.8	2	PF334%602200A1x
0.47	32.0	24.5	15.0	27.5	-	0.8	160	75	226	15.5	16	94.5	3.2	2	PF474%602200A1x
0.56	32.0	28.0	14.0	27.5	-	0.8	160	90	269	12.5	18	75.0	4.0	2	PF564%602200A1x
0.68	32.0	28.0	18.0	27.5	-	0.8	160	109	326	10.8	18	60.3	4.8	2	PF684%602200A1x
0.82	32.0	33.0	18.0	27.5	-	0.8	160	131	394	7.0	20	59.5	6.0	2	PF824%602200A1x
1.0	32.0	33.0	18.0	27.5	-	0.8	160	160	480	7.0	20	59.5	6.0	2	PF105%602200A1x
1.2	32.0	37.0	22.0	27.5	-	1.0	160	192	576	5.8	22	52.8	7.0	2	PF125%602200A1x
1.0	42.0	30.0	16.0	37.5	-	1.0	100	100	300	12.8	24	57.9	4.5	2	PF105%603200A1x
1.2	42.0	32.0	19.0	37.5	-	1.0	100	120	360	8.8	24	47.3	6.0	2	PF125%603200A1x
1.5	42.0	32.0	19.0	37.5	-	1.0	100	150	450	8.6	24	41.3	6.5	2	PF155%603200A1x
1.8	42.0	37.0	22.0	37.5	-	1.0	100	180	540	8.0	24	38.3	7.0	2	PF185%603400A1x
2.0	42.0	37.0	22.0	37.5	-	1.0	100	200	600	7.0	24	33.5	8.0	2	PF205%603400A1x
2.2	42.0	44.0	24.0	37.5	-	1.0	100	220	660	6.5	24	28.5	9.0	2	PF225%603400A1x
2.5	42.0	44.0	24.0	37.5	-	1.0	100	250	750	6.0	24	27.7	9.5	2	PF255%603400A1x
2.8	42.0	43.0	28.0	37.5	-	1.0	100	280	840	5.5	26	27.3	10.0	2	PF285%603200A1x
3.0	42.0	45.0	30.0	37.5	-	1.0	100	300	900	5.0	26	27.2	10.5	2	PF305%603200A1x
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%603400A1x
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%603400A1x
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%605400A1x
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%605400A1x
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%605400A1x
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%605400A1x
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%605400A1x
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%605400A1x
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%605400A1x
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%605400A1x

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 (uF)	Dimensions (mm)						dv/dt (V/us)	Peak Current (A)	Surge Current (A)	ESR 10KHz (mΩ)	ESL (nH)	Thermal Rth (°C/W)	Irms 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
0.1	32.0	18.0	9.0	27.5	-	0.8	200	20	60	45.0	16	148.1	1.5	2	PF104%762200A1x
0.15	32.0	20.0	11.0	27.5	-	0.8	200	30	90	24.0	16	100.0	2.5	2	PF154%762200A1x
0.22	32.0	22.0	13.0	27.5	-	0.8	200	44	132	21.5	16	89.0	2.8	2	PF224%762200A1x
0.33	32.0	24.5	15.0	27.5	-	0.8	200	66	198	15.5	16	94.5	3.2	2	PF334%762200A1x
0.47	32.0	28.0	18.0	27.5	-	0.8	200	94	282	12.0	18	61.7	4.5	2	PF474%762200A1x
0.56	32.0	33.0	18.0	27.5	-	0.8	200	112	336	10.5	20	57.1	5.0	2	PF564%762200A1x
0.68	32.0	37.0	22.0	27.5	-	1.0	200	136	408	9.5	22	43.9	6.0	2	PF684%762200A1x
0.68	42.0	30.0	16.0	37.5	-	1.0	120	82	245	12.8	24	57.9	4.5	2	PF684%763200A1x
0.82	42.0	32.0	19.0	37.5	-	1.0	120	98	295	10.0	24	49.6	5.5	2	PF824%763200A1x
1.0	42.0	32.0	19.0	37.5	-	1.0	120	120	360	9.0	24	39.4	6.5	2	PF105%763200A1x
1.2	42.0	37.0	22.0	37.5	-	1.0	120	144	432	8.5	24	36.0	7.0	2	PF125%763400A1x
1.5	42.0	44.0	24.0	37.5	-	1.0	120	180	540	7.5	24	31.3	8.0	2	PF155%763400A1x
1.8	42.0	43.0	28.0	37.5	-	1.0	120	216	648	6.5	26	25.6	9.5	2	PF185%763200A1x
2.0	42.0	45.0	30.0	37.5	-	1.0	120	240	720	5.0	26	27.2	10.5	2	PF205%763200A1x
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%763400A1x
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%765400A1x
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%765400A1x
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%765400A1x
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%765400A1x
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%765400A1x

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

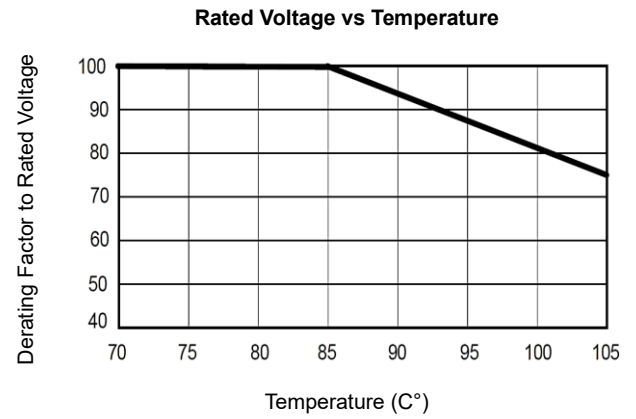
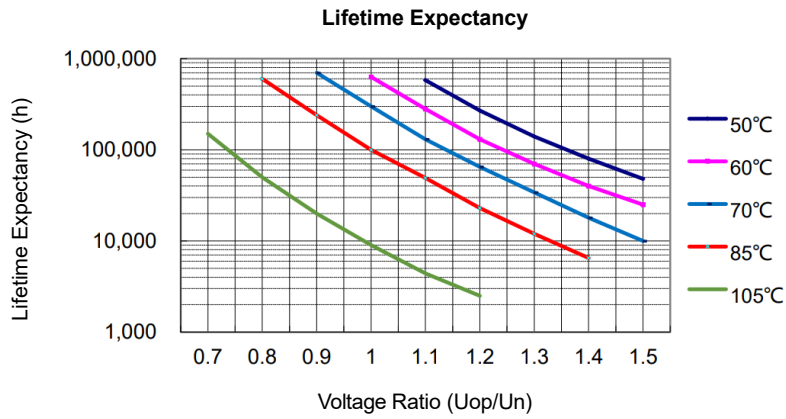
ENVIRONMENTAL TEST

Item	Test Condition	Performance																					
Temperature Humidity Bias (THB) Test	Temperature: +85 ±2°C, Humidity: 85% RH, Duration: 2000 +24/0 hours, Loading Voltage: rated voltage, Measurement at 24 ±4 hours after test.	ΔC/C: ≤ ± 10% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Operational Life	Temperature: +85 ±2°C, Apply 125% of rated voltage for 1,000 +24/0 hours. Duration: 500 hours 1000 charges and discharges at 1.4 x I peak (Maximum respective peak current in continuous operation), measurement at 24 ±4 hours after test.	ΔC/C: ≤ ± 5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Temperature Cycle	High Temperature: +105 ±5°C, Low Temperature: -40 ±5°C. Cycle: Total 1000 cycles, 30min ± 10% for each temperature 1 min maximum transition time. Measurement at 24 ±4 hours after test conclusion	ΔC/C: ≤ ± 5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
High Temperature Exposure (storage)	Temperature: +105 ±2°C, Duration: 1000 +24/0 hours Measurement at 24 ±4 hours after test conclusion	ΔC/C: ≤ ± 3% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Moisture Resistance	Temperature: +40 ±2°C, Humidity: 90% to 95% RH, Duration: 1344 +24/0 hours Unpowered measurement at 24 ±4hours after test conclusion	ΔC/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 seconds	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 seconds, Depth: 1.5 ±0.5 mm Soldering Temperature: +400°C, Immersion Duration: ≤3 seconds Stabilized for 1.5 ±0.5hr at ordinary condition before measurements	ΔC/C: ≤ ± 0.5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Temperature Humidity Cycle	Test Humidity: 90% to 95% R.H, Test Temperature Cycle: Total 10 cycles, each cycle includes <table border="1"> <thead> <tr> <th>Cycle</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>Temp (°C)</td> <td>+25±2 ~ +65±3</td> <td>+65±3</td> <td>+65±3~ +25±2</td> <td>+25±3~ +65±2</td> <td>+65±3</td> <td>+65±3~ +25±2</td> </tr> <tr> <td>Time (hours)</td> <td>2.5</td> <td>3</td> <td>2.5</td> <td>2.5</td> <td>3</td> <td>2.5</td> </tr> </tbody> </table> Stabilized for 8hr at ordinary condition before measurements	Cycle	1	2	3	4	5	6	Temp (°C)	+25±2 ~ +65±3	+65±3	+65±3~ +25±2	+25±3~ +65±2	+65±3	+65±3~ +25±2	Time (hours)	2.5	3	2.5	2.5	3	2.5	ΔC/C: ≤ ± 5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit
Cycle	1	2	3	4	5	6																	
Temp (°C)	+25±2 ~ +65±3	+65±3	+65±3~ +25±2	+25±3~ +65±2	+65±3	+65±3~ +25±2																	
Time (hours)	2.5	3	2.5	2.5	3	2.5																	
Resistance to solvent	Solvent: propanol (isopropyl alcohol) Temperature: 23 ±5°C, Immersion time: 5 ±0.5min, Drying time: 5 mins Mechanical treatment: 10 rubbing (with cotton-wool)	ΔC/C: ≤ ± 1% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Terminal Strength	<table border="1"> <thead> <tr> <th>Item</th> <th>0.50 < D ≤ 0.80mm</th> <th>0.80 < D ≤ 1.25mm</th> <th>Condition</th> </tr> </thead> <tbody> <tr> <td>Tension</td> <td>10N</td> <td>20N</td> <td rowspan="2">Make two successive bends in each direction</td> </tr> <tr> <td>Bending</td> <td>5N</td> <td>10N</td> </tr> </tbody> </table>	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										
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																					
Vibration Resistance	5g force 20 minutes, three directions, 12 cycles in each direction. Test Frequency 10~2000 Hz																						
Mechanical Shock	Pulse-shape: half-sine wave, Acceleration: 500 m/s ² , Duration of pulse: 11 ms	ΔC/C: ≤ ± 1% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Bump	Total number of bumps: 1000 times or 4000 times, Acceleration: 400 m/s ² , 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 61071, JESD22 Method JA-104, MIL-STD-202, J-STD-002

CHARACTERISTIC CURVE



*Specifications subject to change without notice.