

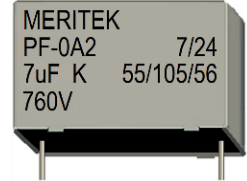
Power Film Capacitor, AC Filter
THB Grade 2000H
AEC-Q200

PF-0A2 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

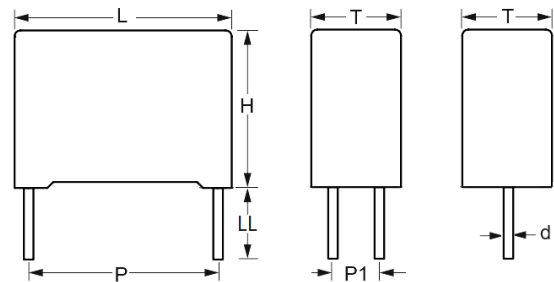
Item	Characteristic						
Operating Temperature	-55~+105°C (85°C~+105°C Decreasing factor 1.35% per °C for Urms)						
Capacitance Range	1.0μF ~ 65μF, ±5%(J), ±10%(K) at 25°C						
Climatic Category	55/105/56 IEC60068-1						
Operating AC Voltage	250	310	350	400	500	600	760
Max Ripple Current	3.8~37.5	4.5~34.5	6.3~38.6	6.6~39.4	7.3~31.6	8.1~27.7	9.3~24.3
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, at 100 Vdc, 60 sec, at +25°C ±5°C°			
Withstanding Voltage	1.5* VR VAC for 10sec			Between terminations, 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 THS			

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** **0A2** **5**
(1) (2) (3) (4) (4) (5)

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	5: 52.5mm pitch, 4: 4pins, 0: Case Code	See the electrical specification table below
(5)	Series Code	0A2	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

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

PF-0A2 Series

MERITEK

ELECTRICAL SPECIFICATION – 250VAC (25)

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)		
1.0	32.0	18.0	9.0	27.5	-	0.8	90	90	270	32.8	12	41.7	3.8	2	PF105%252210A2x
1.0	32.0	20.0	11.0	27.5	-	0.8	90	90	270	27.3	14	35.7	4.5	2	PF105%252220A2x
1.5	32.0	20.0	11.0	27.5	-	0.8	90	135	405	21.9	14	35.7	5.1	2	PF155%252200A2x
2.2	32.0	22.0	13.0	27.5	-	0.8	90	198	594	14.9	15	33.3	6.3	2	PF225%252210A2x
2.2	32.0	24.5	13.0	27.5	-	0.8	90	198	594	14.9	16	31.3	6.6	2	PF225%252220A2x
2.5	32.0	24.5	13.0	27.5	-	0.8	90	225	675	13.1	16	31.3	7.0	2	PF255%252200A2x
3.3	32.0	28.0	14.0	27.5	-	0.8	90	297	891	9.0	18	27.8	8.9	2	PF335%252210A2x
3.3	32.0	24.5	15.0	27.5	-	0.8	90	297	891	9.0	17	28.6	8.8	2	PF335%252220A2x
3.3	32.0	28.0	18.0	27.5	-	0.8	90	297	891	8.3	19	23.8	10.1	2	PF335%252230A2x
4.0	32.0	28.0	18.0	27.5	-	0.8	90	360	1080	7.4	19	23.8	10.6	2	PF405%252200A2x
4.7	32.0	28.0	18.0	27.5	-	0.8	90	423	1269	7.0	19	23.8	11.0	2	PF475%252200A2x
5.5	32.0	33.0	18.0	27.5	-	0.8	90	495	1485	7.2	21	21.7	11.3	2	PF555%252200A2x
6.8	32.0	37.0	22.0	27.5	-	0.8	90	612	1836	7.1	23	17.2	12.8	2	PF685%252200A2x
7.5	32.0	37.0	22.0	27.5	-	0.8	90	675	2025	7.1	23	17.2	12.8	2	PF755%252200A2x
8.0	42.0	37.0	22.0	37.5	10.2	1.2	60	480	1440	9.2	14	14.3	12.4	4	PF805%253400A2x
10	42.0	40.0	20.0	37.5	10.2	1.2	60	600	1800	6.5	14	13.9	14.9	4	PF106%253410A2x
10	42.0	37.0	22.0	37.5	10.2	1.2	60	600	1800	6.5	14	14.3	14.7	4	PF106%253420A2x
15	42.0	44.0	24.0	37.5	10.2	1.2	60	900	2700	4.8	15	12.2	18.6	4	PF156%253410A2x
15	42.0	45.0	30.0	37.5	20.3	1.2	60	900	2700	4.3	16	10.0	21.5	4	PF156%253420A2x
22	42.0	50.0	35.0	37.5	20.3	1.2	60	1320	3960	3.6	17	8.3	25.9	4	PF226%253400A2x
24	42.0	50.0	35.0	37.5	20.3	1.2	60	1440	4320	3.5	17	8.3	26.0	4	PF246%253400A2x
30	57.5	45.0	30.0	52.5	20.3	1.2	30	900	2700	5.0	15	8.0	22.3	4	PF306%255400A2x
33	57.5	50.0	35.0	52.5	20.3	1.2	30	990	2970	4.6	17	6.9	25.2	4	PF336%255400A2x
35	57.5	50.0	35.0	52.5	20.3	1.2	30	1050	3150	4.3	17	6.9	26.0	4	PF356%255400A2x
40	57.5	57.5	38.0	52.5	20.3	1.2	30	1200	3600	3.8	20	5.9	30.1	4	PF406%255400A2x
47	57.5	55.0	45.0	52.5	20.3	1.2	30	1410	4230	3.8	19	5.4	31.0	4	PF476%255400A2x
55	57.5	55.0	45.0	52.5	20.3	1.2	30	1650	4950	3.3	19	5.4	33.6	4	PF556%255400A2x
62	57.5	65.0	45.0	52.5	20.3	1.2	30	1860	5580	2.9	20	5.1	36.6	4	PF626%255400A2x

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

ELECTRICAL SPECIFICATION – 310VAC(31)

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	27.3	14	35.7	4.5	2	PF105%312200A2x
1.5	32.0	22.0	13.0	27.5	-	0.8	90	135	405	18.2	15	33.3	5.7	2	PF155%312210A2x
1.5	32.0	24.5	13.0	27.5	-	0.8	90	135	405	18.2	16	31.3	5.9	2	PF155%312220A2x
2.2	32.0	24.5	15.0	27.5	-	0.8	90	198	594	12.4	17	28.6	7.5	2	PF225%312210A2x
2.2	32.0	28.0	14.0	27.5	-	0.8	90	198	594	12.4	18	27.8	7.6	2	PF225%312220A2x
3.3	32.0	28.0	18.0	27.5	-	0.8	90	297	891	8.3	19	23.8	10.1	2	PF335%312200A2x
4.0	32.0	33.0	18.0	27.5	-	0.8	90	360	1080	6.8	21	21.7	11.6	2	PF405%312200A2x
4.7	32.0	37.0	22.0	27.5	-	0.8	90	423	1269	7.1	23	17.2	12.8	2	PF475%312200A2x
5.6	32.0	37.0	22.0	27.5	-	0.8	90	504	1512	7.1	23	17.2	12.8	2	PF565%312200A2x
6.8	42.0	40.0	20.0	37.5	10.2	1.2	60	408	1224	8.8	14	13.9	12.8	4	PF685%313410A2x
6.8	42.0	37.0	22.0	37.5	10.2	1.2	60	408	1224	8.8	14	14.3	12.6	4	PF685%313420A2x
8.0	42.0	37.0	22.0	37.5	10.2	1.2	60	480	1440	7.4	14	14.3	13.7	4	PF805%313400A2x
10	42.0	44.0	24.0	37.5	10.2	1.2	60	600	1800	6.0	15	12.2	16.6	4	PF106%313410A2x
10	42.0	37.0	28.0	37.5	10.2	1.2	60	600	1800	6.0	15	12.2	16.6	4	PF106%313420A2x
15	42.0	45.0	30.0	37.5	20.3	1.2	60	900	2700	4.0	16	10.0	22.4	4	PF156%313410A2x
15	42.0	50.0	35.0	37.5	20.3	1.2	60	900	2700	4.0	17	8.3	24.6	4	PF156%313420A2x
18	42.0	50.0	35.0	37.5	20.3	1.2	60	1080	3240	3.3	17	8.3	26.9	4	PF186%313400A2x
20	57.5	45.0	30.0	52.5	20.3	1.2	30	600	1800	5.7	15	8.0	20.9	4	PF226%315400A2x
22	57.5	50.0	35.0	52.5	20.3	1.2	30	660	1980	5.7	17	6.9	22.6	4	PF226%315400A2x
25	57.5	50.0	35.0	52.5	20.3	1.2	30	750	2250	5.0	17	6.9	24.0	4	PF256%315400A2x
33	57.5	55.0	45.0	52.5	20.3	1.2	30	990	2970	3.8	19	5.4	31.2	4	PF336%315410A2x
33	57.5	57.5	38.0	52.5	20.3	1.2	30	990	2970	3.8	20	5.9	29.9	4	PF336%315420A2x
38	57.5	65.0	45.0	52.5	20.3	1.2	30	1140	3420	4.0	20	5.1	31.4	4	PF386%315400A2x
42	57.5	65.0	45.0	52.5	20.3	1.2	30	1260	3780	3.6	20	5.1	33.0	4	PF426%315400A2x
46	57.5	65.0	45.0	52.5	20.3	1.2	30	1380	4140	3.3	20	5.1	34.5	4	PF466%315400A2x

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)		
1.0	32.0	22.0	13.0	27.5	-	0.8	100	100	300	15.1	15	33.3	6.3	2	PF105%352210A2x
1.0	32.0	24.5	13.0	27.5	-	0.8	100	100	300	15.1	16	31.3	6.5	2	PF105%352220A2x
1.5	32.0	28.0	14.0	27.5	-	0.8	100	150	450	10.1	18	27.8	8.4	2	PF155%352210A2x
1.5	32.0	24.5	15.0	27.5	-	0.8	100	150	450	10.1	17	28.6	8.3	2	PF155%352220A2x
2.2	32.0	28.0	18.0	27.5	-	0.8	100	220	660	9.2	19	23.8	9.6	2	PF225%352200A2x
3.3	32.0	37.0	22.0	27.5	-	0.8	100	330	990	7.1	23	17.2	12.8	2	PF335%352200A2x
3.7	32.0	37.0	22.0	27.5	-	0.8	100	370	1110	7.1	23	17.2	12.8	2	PF375%352200A2x
4.7	42.0	40.0	20.0	37.5	10.2	1.2	70	329	987	7.4	14	13.9	14.0	4	PF475%353410A2x
4.7	42.0	37.0	22.0	37.5	10.2	1.2	70	329	987	7.4	14	14.3	13.8	4	PF475%353420A2x
6.8	42.0	44.0	24.0	37.5	10.2	1.2	70	476	1428	5.1	15	12.2	17.9	4	PF685%353410A2x
6.8	42.0	37.0	28.0	37.5	10.2	1.2	70	476	1428	5.1	15	12.2	17.9	4	PF685%353420A2x
10	42.0	45.0	30.0	37.5	20.3	1.2	70	700	2100	3.5	16	10.0	24.0	4	PF106%353410A2x
10	42.0	50.0	35.0	37.5	20.3	1.2	70	700	2100	3.7	17	8.3	25.4	4	PF106%353420A2x
13	42.0	50.0	35.0	37.5	20.3	1.2	70	910	2730	3.1	17	8.3	27.8	4	PF136%353400A2x
15	57.5	45.0	30.0	52.5	20.3	1.2	40	600	1800	4.8	15	8.0	22.8	4	PF156%355400A2x
15	57.5	50.0	35.0	52.5	20.3	1.2	40	600	1800	4.4	17	6.9	25.6	4	PF156%355410A2x
18	57.5	50.0	35.0	52.5	20.3	1.2	40	720	2160	4.0	17	6.9	26.9	4	PF186%355420A2x
20	57.5	57.5	38.0	52.5	20.3	1.2	40	800	2400	3.6	20	5.9	30.7	4	PF206%355400A2x
22	57.5	57.5	38.0	52.5	20.3	1.2	40	880	2640	3.3	20	5.9	32.3	4	PF226%355410A2x
22	57.5	55.0	45.0	52.5	20.3	1.2	40	880	2640	3.3	19	5.4	33.6	4	PF226%355420A2x
27	57.5	55.0	45.0	52.5	20.3	1.2	40	1080	3240	3.1	19	5.4	34.5	4	PF276%355400A2x
32	57.5	65.0	45.0	52.5	20.3	1.2	40	1280	3840	2.6	20	5.1	38.6	4	PF326%355400A2x

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)		
1.0	32.0	24.0	14.0	27.5	-	0.8	120	120	360	15.4	17	29.4	6.6	2	PF105%352210A2x
1.0	32.0	28.0	14.0	27.5	-	0.8	120	120	360	15.4	18	27.8	6.8	2	PF105%402220A2x
1.5	32.0	28.0	18.0	27.5	-	0.8	120	180	540	11.7	19	23.8	8.5	2	PF155%402200A2x
2.2	32.0	33.0	18.0	27.5	-	0.8	120	264	792	8.0	21	21.7	10.7	2	PF225%402200A2x
2.5	32.0	37.0	22.0	27.5	-	0.8	120	300	900	7.1	23	17.2	12.8	2	PF255%402200A2x
3.0	32.0	37.0	22.0	27.5	-	0.8	120	360	1080	7.1	23	17.2	12.8	2	PF305%402200A2x
3.3	42.0	40.0	20.0	37.5	10.2	1.2	80	264	792	9.2	14	13.9	12.5	4	PF335%403400A2x
4.0	42.0	40.0	20.0	37.5	10.2	1.2	80	320	960	7.6	14	13.9	13.8	4	PF405%403400A2x
4.7	42.0	37.0	28.0	37.5	10.2	1.2	80	376	1128	6.4	15	12.2	16.0	4	PF475%403400A2x
5.6	42.0	37.0	28.0	37.5	10.2	1.2	80	448	1344	5.4	15	12.2	17.4	4	PF565%403400A2x
6.8	42.0	45.0	30.0	37.5	20.3	1.2	80	544	1632	4.5	16	10.0	21.2	4	PF685%403400A2x
9.0	42.0	50.0	35.0	37.5	20.3	1.2	80	720	2160	3.9	17	8.3	24.7	4	PF905%403400A2x
10	42.0	50.0	35.0	37.5	20.3	1.2	80	800	2400	3.5	17	8.3	26.1	4	PF106%403410A2x
10	57.5	45.0	30.0	52.5	20.3	1.2	50	500	1500	6.3	15	8.0	19.9	4	PF106%405420A2x
14	57.5	50.0	35.0	52.5	20.3	1.2	50	700	2100	4.5	17	6.9	25.4	4	PF146%405400A2x
15	57.5	55.0	45.0	52.5	20.3	1.2	50	750	2250	4.2	19	5.4	29.7	4	PF156%405400A2x
18	57.5	57.5	38.0	52.5	20.3	1.2	50	900	2700	3.5	20	5.9	31.2	4	PF186%405400A2x
20	57.5	55.0	45.0	52.5	20.3	1.2	50	1000	3000	3.1	19	5.4	34.3	4	PF206%405400A2x
23	57.5	65.0	45.0	52.5	20.3	1.2	50	1150	3450	2.7	20	5.1	37.8	4	PF236%405400A2x

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)		
1.0	32.0	28.0	18.0	27.5	-	0.8	140	140	420	15.9	19	23.8	7.3	2	PF105%502200A2x
1.5	32.0	37.0	22.0	27.5	-	0.8	140	210	630	11.8	23	17.2	9.9	2	PF155%502200A2x
1.8	32.0	37.0	22.0	27.5	-	0.8	140	252	756	9.8	23	17.2	10.9	2	PF185%502200A2x
2.2	42.0	40.0	20.0	37.5	10.2	1.2	90	198	594	11.0	14	13.9	11.4	4	PF225%503410A2x
2.2	42.0	37.0	22.0	37.5	10.2	1.2	90	198	594	11.0	14	14.3	11.3	4	PF225%503420A2x
3.0	42.0	37.0	28.0	37.5	10.2	1.2	90	270	810	8.1	15	12.2	14.2	4	PF305%503400A2x
4.0	42.0	43.0	28.0	37.5	10.2	1.2	90	360	1080	8.1	16	11.8	14.5	4	PF405%503400A2x
4.4	42.0	45.0	30.0	37.5	20.3	1.2	90	396	1188	7.3	16	10.0	16.5	4	PF445%503400A2x
4.7	42.0	45.0	30.0	37.5	20.3	1.2	90	423	1269	6.9	16	10.0	17.0	4	PF475%503400A2x
5.5	42.0	50.0	35.0	37.5	20.3	1.2	90	495	1485	5.9	17	8.3	20.2	4	PF555%503400A2x
6.0	42.0	50.0	35.0	37.5	20.3	1.2	90	540	1620	5.4	17	8.3	21.1	4	PF605%503400A2x
6.6	57.5	45.0	30.0	52.5	20.3	1.2	60	396	1188	7.6	15	8.0	18.1	4	PF665%505400A2x
8.0	57.5	50.0	35.0	52.5	20.3	1.2	60	480	1440	6.3	17	6.9	21.5	4	PF805%505400A2x
9.0	57.5	50.0	35.0	52.5	20.3	1.2	60	540	1620	5.6	17	6.9	22.8	4	PF905%505400A2x
12	57.5	57.5	38.0	52.5	20.3	1.2	60	720	2160	4.9	20	5.9	26.4	4	PF126%505410A2x
12	57.5	55.0	45.0	52.5	20.3	1.2	60	720	2160	4.9	19	5.4	27.5	4	PF126%505420A2x
15	57.5	65.0	45.0	52.5	20.3	1.2	60	900	2700	3.9	20	5.1	31.6	4	PF156%505400A2x

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)		
1.0	32.0	37.0	22.0	27.5	-	0.8	160	160	480	17.9	23	17.2	8.1	2	PF105%602200A2x
1.2	32.0	37.0	22.0	27.5	-	0.8	160	192	576	14.9	23	17.2	8.8	2	PF125%602200A2x
1.8	42.0	40.0	20.0	37.5	10.2	1.2	100	180	540	13.9	14	13.9	10.2	4	PF185%603410A2x
1.8	42.0	37.0	22.0	37.5	10.2	1.2	100	180	540	13.9	14	14.3	10.0	4	PF185%603420A2x
2.2	42.0	37.0	28.0	37.5	10.2	1.2	100	220	660	11.4	15	12.2	12.0	4	PF225%603410A2x
2.2	42.0	44.0	24.0	37.5	10.2	1.2	100	220	660	11.4	15	12.2	12.0	4	PF225%603420A2x
3.3	42.0	45.0	30.0	37.5	20.3	1.2	100	330	990	7.6	16	10.0	16.2	4	PF335%603400A2x
4.7	42.0	50.0	35.0	37.5	20.3	1.2	100	470	1410	5.3	17	8.3	21.2	4	PF475%603400A2x
4.5	57.5	45.0	30.0	52.5	20.3	1.2	70	315	945	10.3	15	8.0	15.6	4	PF455%605400A2x
5.0	57.5	45.0	30.0	52.5	20.3	1.2	70	350	1050	9.2	15	8.0	16.4	4	PF505%605400A2x
7.0	57.5	50.0	35.0	52.5	20.3	1.2	70	490	1470	8.3	17	6.9	18.7	4	PF705%605400A2x
8.0	57.5	57.5	38.0	52.5	20.3	1.2	70	560	1680	7.2	20	5.9	21.7	4	PF705%605400A2x
12	57.5	65.0	45.0	52.5	20.3	1.2	70	840	2520	5.1	20	5.1	27.7	4	PF126%605400A2x

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)		
1.0	42.0	37.0	22.0	37.5	10.2	1.2	120	120	360	16.0	14	14.3	9.3	4	PF105%763400A2x
1.5	42.0	44.0	24.0	37.5	10.2	1.2	120	180	540	10.7	15	12.2	12.4	4	PF155%763400A2x
1.8	42.0	43.0	28.0	37.5	10.2	1.2	120	216	648	8.9	16	11.8	13.8	4	PF185%763400A2x
2.0	42.0	45.0	30.0	37.5	20.3	1.2	120	240	720	8.0	16	10.0	15.8	4	PF205%763400A2x
2.7	42.0	50.0	35.0	37.5	20.3	1.2	120	324	972	5.9	17	8.3	20.1	4	PF275%763400A2x
3.0	57.5	45.0	30.0	52.5	20.3	1.2	80	240	720	12.3	15	8.0	14.2	4	PF305%765400A2x
4.0	57.5	50.0	35.0	52.5	20.3	1.2	80	320	960	11.6	17	6.9	15.8	4	PF405%765400A2x
5.0	57.5	57.5	38.0	52.5	20.3	1.2	80	400	1200	9.2	20	5.9	19.2	4	PF505%765400A2x
6.0	57.5	55.0	45.0	52.5	20.3	1.2	80	480	1440	7.7	20	5.4	21.9	4	PF605%765400A2x
7.0	57.5	65.0	45.0	52.5	20.3	1.2	80	560	1680	6.6	20	5.1	24.3	4	PF705%765400A2x

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

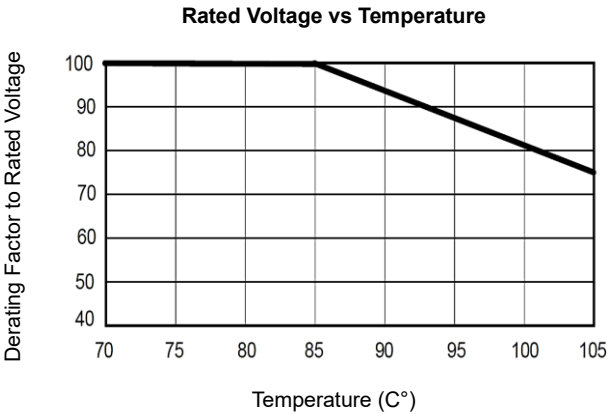
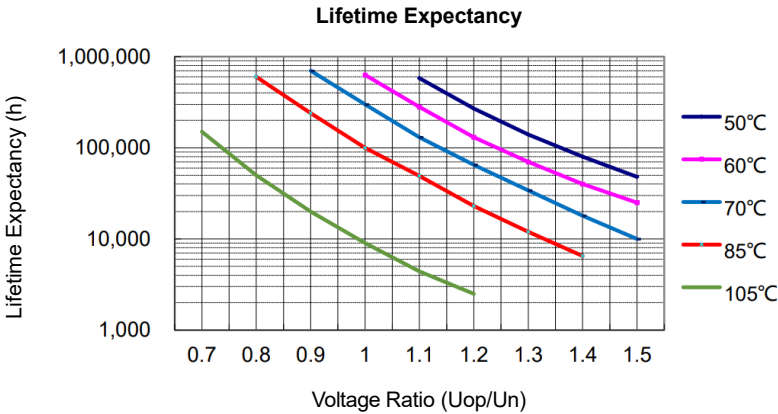
ENVIRONMENTAL TEST

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: ≤ 150*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><tr><th>Cycle</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th></tr><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></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><tr><th>Item</th><th>0.50 < D ≤ 0.80mm</th><th>0.80 < D ≤ 1.25mm</th><th>Condition</th></tr><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></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	ΔC/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 61071, JESD22 Method JA-104, MIL-STD-202, J-STD-002

CHARACTERISTIC CURVE



*Specifications subject to change without notice.