

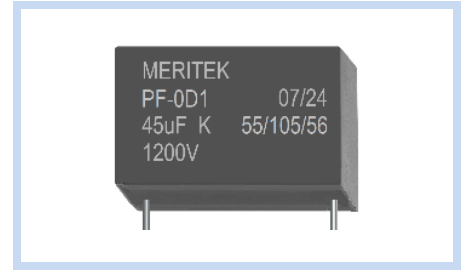
**Power Film Capacitor, DC-Link
THB Grade 2000Hours
AEC-Q200**

PF-0D1 Series

MERITEK

FEATURE

- Self-Healing Property
- High Ripple and Peak (dv/dt) Current Capability
- Low ESL, High Frequency Performance
- Applications: Renewable Energies Inverters, UPS, Battery Charger, Motor Drive, High Frequency Applications
- THB-2000H, 85°C, 85%RH, VR, 2000h
- AEC-Q200 Compliant



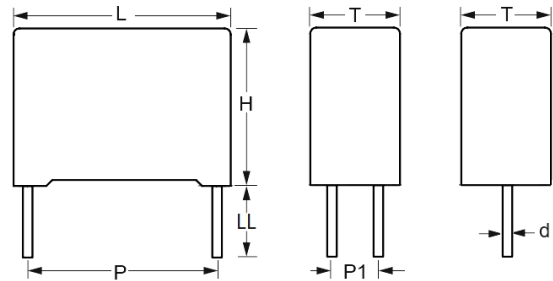
ELECTRICAL CHARACTERISTICS

Item	Characteristic										
Operating Temperature	-55~+105°C (85°C~+105°C Decreasing factor 1.25% per °C for rated voltage)										
Capacitance Range	1.0µF ~ 200µF, ±5%(J), ±10%(K) at 25°C										
Climatic Category	55/105/56 IEC60068-1										
Operating DC Voltage, V _{NDC}	450	550	600	700	800	900	1000	1100	1200	--	--
Max RMS Current, 70°C 10KHz	5~33	5.5~33	2.9~34	2.9~34	2.9~35	2~33.5	2~28.5	2.2~24.5	3.2~25	--	--
Dissipation Factor	C ≤20µF		C >20µF		C >80µF		--		at 1KHz; at 25°C		
	≤0.002 (0.2%)		≤0.003 (0.3%)		≤0.004 (0.4%)		--				
Overvoltage	110% of Vr		115% of Vr		120% of Vr		130% of Vr		Max duration within one day		
	30% 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 VDC for 10sec				Between Terminals, for 10sec, at +25°C±5°C						
	3000VAC, 50/60Hz 60sec				Between Terminals and Enclosure, for 60sec, 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	32
2-pin	37.5	NA	1.0	42
4-pin	27.5	10.2	0.8	32
4-pin	37.5	10.2, 20.3	1.0	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 456K 12 540 0D1 5
(1) (2) (3) (4) (5) (6)

No	Item	Code	Description	
(1)	Product Code	PF	Power Film Capacitor, Metallized PP Film	
(2)	Nominal Capacitance	456K	45 µF ±10%(K)	First two digits: Significant, Third: Multiplier
(3)	Rated Voltage	12	12: 1200VDC	First two digits of Operating DC Voltage, V _{NDC}
(4)	Internal Code	540	5: 52.5mm pitch, 4: 4 pins, 0: Case Code	See the electrical specification table below
(5)	Series Code	0D1	DC Link Capacitor Series, Box Type, 105°C Max, THB-2000H, 85°C, 85%RH, VR, 2000h, AEC-Q200	
(6)	Option Code	5	5: LL 5mm Bulk package	4: LL 4mm, Blank: LL: 15mm min, Bulk package

ELECTRICAL SPECIFICATION – 450VDC (45)

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									
5	32	20	11	27.5	-	0.8	65	325	975	20.0	25	30.0	5.0	2	PF505%452200D1x
10	32	24.5	15	27.5	-	0.8	65	650	1950	11.0	25	27.8	7.0	2	PF106%452200D1x
15	32	33	18	27.5	-	0.8	65	975	2925	7.0	25	17.7	11.0	2	PF156%452200D1x
22	32	37	22	27.5	-	0.8	65	1430	4290	5.0	28	24.8	11.0	2	PF226%452200D1x
25	32	37	22	27.5	-	0.8	65	1625	4875	4.8	28	24.8	12.0	2	PF256%452200D1x
30	42	40	20	37.5	10.2	1.2	35	1050	3150	7.5	30	12.8	12.5	4	PF306%453400D1x
35	42	37	22	37.5	10.2	1.2	35	1225	3675	7.0	30	11.8	13.5	4	PF356%453400D1x
40	42	37	28	37.5	10.2	1.2	35	1400	4200	6.2	30	11.5	14.5	4	PF406%453400D1x
50	42	43	28	37.5	10.2	1.2	35	1750	5250	5.0	30	11.7	16.0	4	PF506%453410D1x
50	42	45	30	37.5	20.3	1.2	35	1750	5250	5.0	30	11.7	16.0	4	PF506%453420D1x
60	42	45	30	37.5	20.3	1.2	35	2100	6300	4.5	30	12.2	16.5	4	PF606%453400D1x
80	42	50	35	37.5	20.3	1.2	35	2800	8400	3.8	30	12.2	20.5	4	PF806%453400D1x
110	42	60	45	37.5	20.3	1.2	35	3850	11550	3.6	30	12.2	24.5	4	PF117%453400D1x
130	42	60	45	37.5	20.3	1.2	35	4550	13650	3.0	30	12.2	28.5	4	PF137%453400D1x
75	57.5	45	30	52.5	20.3	1.2	20	1500	4500	5.5	35	10.0	16.5	4	PF756%455400D1x
80	57.5	45	30	52.5	20.3	1.2	20	1600	4800	5.0	35	10.4	17.0	4	PF806%455400D1x
100	57.5	50	35	52.5	20.3	1.2	20	2000	6000	4.5	35	10.3	18.0	4	PF107%455400D1x
110	57.5	50	35	52.5	20.3	1.2	20	2200	6600	4.0	35	10.4	19.0	4	PF117%455400D1x
120	57.5	50	35	52.5	20.3	1.2	20	2400	7200	3.8	35	10.4	21.5	4	PF127%455400D1x
160	57.5	55	45	52.5	20.3	1.2	20	3200	9600	3.0	35	10.4	28.5	4	PF167%455400D1x
200	57.5	65	45	52.5	20.3	1.2	20	4000	12000	2.6	35	10.4	33.0	4	PF207%455400D1x

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 – 550VDC (55)

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									
5	32	22	13	27.5	-	0.8	65	325	975	19.5	25	25.4	5.5	2	PF505%552200D1x
10	32	33	18	27.5	-	0.8	65	650	1950	10.5	25	25.4	7.5	2	PF106%552200D1x
15	32	37	22	27.5	-	0.8	65	975	2925	6.8	28	16.7	11.5	2	PF156%552200D1x
22	32	37	22	27.5	-	0.8	65	1430	4290	4.9	28	23.1	11.5	2	PF226%552200D1x
30	42	44	24	37.5	10.2	1.2	35	1050	3150	7.2	30	12.3	13.0	4	PF306%553400D1x
35	42	45	30	37.5	20.3	1.2	35	1225	3675	6.8	30	11.6	13.8	4	PF356%553400D1x
40	42	45	30	37.5	20.3	1.2	35	1400	4200	6.0	30	11.4	14.8	4	PF406%553400D1x
50	42	50	35	37.5	20.3	1.2	35	1750	5250	4.8	30	10.8	17.0	4	PF506%553400D1x
60	42	50	35	37.5	20.3	1.2	35	2100	6300	4.2	30	11.0	18.0	4	PF606%553400D1x
70	42	50	35	37.5	20.3	1.2	35	2450	7350	3.8	30	11.0	20.5	4	PF706%553400D1x
110	42	60	45	37.5	20.3	1.2	35	3850	11550	3.6	30	11.0	24.5	4	PF117%553400D1x
75	57.5	45	30	52.5	20.3	1.2	20	1500	4500	5.2	35	10.2	16.8	4	PF756%555400D1x
100	57.5	50	35	52.5	20.3	1.2	20	2000	6000	4.3	35	10.2	18.5	4	PF107%555400D1x
110	57.5	50	35	52.5	20.3	1.2	20	2200	6600	4.0	35	9.4	20.0	4	PF117%555400D1x
140	57.5	55	45	52.5	20.3	1.2	20	2800	8400	3.5	35	6.3	26.0	4	PF147%555400D1x
170	57.5	65	45	52.5	20.3	1.2	20	3400	10200	2.8	35	5.2	32.0	4	PF177%555400D1x
180	57.5	65	45	52.5	20.3	1.2	20	3600	10800	2.6	35	5.2	33.0	4	PF187%555400D1x

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 – 600VDC(60)

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									
2	32	18	9	27.5	-	0.8	65	130	390	40.0	25	44.6	2.9	2	PF205%602200D1x
3	32	20	11	27.5	-	0.8	65	195	585	28.0	25	33.5	4.0	2	PF305%602200D1x
4	32	20	11	27.5	-	0.8	65	260	780	23.0	25	21.6	5.5	2	PF405%602200D1x
5	32	22	13	27.5	-	0.8	65	325	975	14.5	25	21.1	7.0	2	PF505%602200D1x
6	32	24.5	15	27.5	-	0.8	65	390	1170	13.0	25	21.7	7.3	2	PF605%602200D1x
7	32	24.5	15	27.5	-	0.8	65	455	1365	12.0	25	17.3	8.5	2	PF705%602200D1x
8	32	28	14	27.5	-	0.8	65	520	1560	11.0	25	15.1	9.5	2	PF805%602200D1x
9	32	30	16	27.5	-	0.8	65	585	1755	10.5	25	13.0	10.5	2	PF905%602200D1x
10	32	30	16	27.5	-	0.8	65	650	1950	10.0	25	12.4	11.0	2	PF106%602200D1x
12	32	33	18	27.5	-	0.8	65	780	2340	9.5	25	11.0	12.0	2	PF126%602200D1x
15	32	37	22	27.5	-	0.8	65	975	2925	9.5	28	11.0	12.0	2	PF156%602210D1x
15	32	37	22	27.5	10.2	1.0	65	975	2925	7.0	28	10.2	14.5	4	PF156%602420D1x
18	32	37	22	27.5	-	0.8	65	1170	3510	9.0	28	10.7	12.5	2	PF186%602210D1x
18	32	37	22	27.5	10.2	1.0	65	1170	3510	6.0	28	9.2	16.5	4	PF186%602420D1x
10	42	30	17	37.5	-	1.0	35	350	1050	18.0	28	17.0	7.0	2	PF106%603200D1x
12	42	30	17	37.5	-	1.0	35	420	1260	12.0	28	19.5	8.0	2	PF126%603200D1x
15	42	32	19	37.5	-	1.0	35	525	1575	11.0	28	15.1	9.5	2	PF156%603200D1x
20	42	40	20	37.5	10.2	1.2	35	700	2100	9.0	30	10.7	12.5	4	PF206%603400D1x
22	42	40	20	37.5	10.2	1.2	35	770	2310	8.0	30	10.3	13.5	4	PF226%603400D1x
25	42	40	20	37.5	10.2	1.2	35	875	2625	7.0	30	8.9	15.5	4	PF256%603400D1x
30	42	44	24	37.5	10.2	1.2	35	1050	3150	6.5	30	8.5	16.5	4	PF306%603400D1x
35	42	45	30	37.5	20.3	1.2	35	1225	3675	6.0	30	7.3	18.5	4	PF356%603400D1x
40	42	45	30	37.5	20.3	1.2	35	1400	4200	5.0	30	7.1	20.5	4	PF406%603400D1x
45	42	50	35	37.5	20.3	1.2	35	1575	4725	4.5	30	6.3	23.0	4	PF456%603400D1x
50	42	50	35	37.5	20.3	1.2	35	1750	5250	4.0	30	6.0	25.0	4	PF506%603400D1x
60	42	55	40	37.5	20.3	1.2	35	2100	6300	3.8	30	5.4	27.0	4	PF606%603400D1x
70	42	55	40	37.5	20.3	1.2	35	2450	7350	3.5	30	5.1	29.0	4	PF706%603400D1x
75	42	60	45	37.5	20.3	1.2	35	2625	7875	3.0	30	5.6	30.0	4	PF756%603400D1x
80	42	60	45	37.5	20.3	1.2	35	2800	8400	2.8	30	5.2	32.0	4	PF806%603400D1x
85	42	60	45	37.5	20.3	1.2	35	2975	8925	2.5	30	5.2	34.0	4	PF856%603400D1x
40	57.5	45	25	52.5	10.2	1.2	20	800	2400	8.0	35	10.3	13.5	4	PF406%605400D1x
45	57.5	45	25	52.5	10.2	1.2	20	900	2700	7.5	35	10.2	14.0	4	PF456%605400D1x
50	57.5	45	25	52.5	10.2	1.2	20	1000	3000	7.0	35	8.9	15.5	4	PF506%605400D1x
55	57.5	45	30	52.5	20.3	1.2	20	1100	3300	6.2	35	8.4	17.0	4	PF556%605400D1x
60	57.5	45	30	52.5	20.3	1.2	20	1200	3600	6.0	35	7.3	18.5	4	PF606%605400D1x
65	57.5	50	35	52.5	20.3	1.2	20	1300	3900	5.5	35	6.8	20.0	4	PF656%605400D1x
70	57.5	50	35	52.5	20.3	1.2	20	1400	4200	5.0	35	6.5	21.5	4	PF706%605400D1x
75	57.5	50	35	52.5	20.3	1.2	20	1500	4500	4.5	35	6.0	23.5	4	PF756%605400D1x
80	57.5	50	35	52.5	20.3	1.2	20	1600	4800	4.2	35	5.9	24.5	4	PF806%605400D1x
90	57.5	55	45	52.5	20.3	1.2	20	1800	5400	4.0	35	5.5	26.0	4	PF906%605400D1x
100	57.5	55	45	52.5	20.3	1.2	20	2000	6000	3.4	35	5.2	29.0	4	PF107%605400D1x
110	57.5	55	45	52.5	20.3	1.2	20	2200	6600	3.0	35	5.6	30.0	4	PF117%605400D1x
120	57.5	65	45	52.5	20.3	1.2	20	2400	7200	2.8	35	5.2	32.0	4	PF127%605400D1x
130	57.5	65	45	52.5	20.3	1.2	20	2600	7800	2.6	35	5.3	33.0	4	PF137%605400D1x
140	57.5	65	45	52.5	20.3	1.2	20	2800	8400	2.5	35	5.2	34.0	4	PF147%605400D1x

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 – 700VDC (70)

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									
2	32	18	9	27.5	-	0.8	65	130	390	40.0	25	44.6	2.9	2	PF205%702200D1x
3	32	20	11	27.5	-	0.8	65	195	585	28.0	25	33.5	4.0	2	PF305%702200D1x
4	32	20	11	27.5	-	0.8	65	260	780	23.0	25	21.6	5.5	2	PF405%702200D1x
5	32	22	13	27.5	-	0.8	65	325	975	14.5	25	21.1	7.0	2	PF505%702200D1x
6	32	24.5	15	27.5	-	0.8	65	390	1170	13.0	25	21.7	7.3	2	PF605%702200D1x
7	32	24.5	15	27.5	-	0.8	65	455	1365	12.0	25	17.3	8.5	2	PF705%702200D1x
8	32	28	14	27.5	-	0.8	65	520	1560	11.0	25	15.1	9.5	2	PF805%702200D1x
9	32	30	16	27.5	-	0.8	65	585	1755	10.5	25	13.0	10.5	2	PF905%702200D1x
10	32	30	16	27.5	-	0.8	65	650	1950	10.0	25	12.4	11.0	2	PF106%702200D1x
12	32	33	18	27.5	-	0.8	65	780	2340	9.5	25	11.0	12.0	2	PF126%702200D1x
15	32	37	22	27.5	-	0.8	65	975	2925	9.5	28	11.0	12.0	2	PF156%702210D1x
15	32	37	22	27.5	10.2	1.0	65	975	2925	7.0	28	10.2	14.5	4	PF156%702420D1x
18	32	37	22	27.5	-	0.8	65	1170	3510	9.0	28	10.7	12.5	2	PF186%702210D1x
18	32	37	22	27.5	10.2	1.0	65	1170	3510	6.0	28	9.2	16.5	4	PF186%702420D1x
10	42	30	17	37.5	-	1.0	35	350	1050	18.0	28	17.0	7.0	2	PF106%703200D1x
12	42	30	17	37.5	-	1.0	35	420	1260	12.0	28	19.5	8.0	2	PF126%703200D1x
15	42	32	19	37.5	-	1.0	35	525	1575	11.0	28	15.1	9.5	2	PF156%703200D1x
20	42	40	20	37.5	10.2	1.2	35	700	2100	9.0	30	10.7	12.5	4	PF206%703400D1x
22	42	40	20	37.5	10.2	1.2	35	770	2310	8.0	30	10.3	13.5	4	PF226%703400D1x
25	42	40	20	37.5	10.2	1.2	35	875	2625	7.0	30	8.9	15.5	4	PF256%703400D1x
30	42	44	24	37.5	10.2	1.2	35	1050	3150	6.5	30	8.5	16.5	4	PF306%703400D1x
35	42	45	30	37.5	20.3	1.2	35	1225	3675	6.0	30	7.3	18.5	4	PF356%703400D1x
40	42	45	30	37.5	20.3	1.2	35	1400	4200	5.0	30	7.1	20.5	4	PF406%703400D1x
45	42	50	35	37.5	20.3	1.2	35	1575	4725	4.5	30	6.3	23.0	4	PF456%703400D1x
50	42	50	35	37.5	20.3	1.2	35	1750	5250	4.0	30	6.0	25.0	4	PF506%703400D1x
60	42	55	40	37.5	20.3	1.2	35	2100	6300	3.8	30	5.4	27.0	4	PF606%703400D1x
70	42	55	40	37.5	20.3	1.2	35	2450	7350	3.5	30	5.1	29.0	4	PF706%703400D1x
75	42	60	45	37.5	20.3	1.2	35	2625	7875	3.0	30	5.6	30.0	4	PF756%703400D1x
80	42	60	45	37.5	20.3	1.2	35	2800	8400	2.8	30	5.2	32.0	4	PF806%703400D1x
85	42	60	45	37.5	20.3	1.2	35	2975	8925	2.5	30	5.2	34.0	4	PF856%703400D1x
40	57.5	45	25	52.5	10.2	1.2	20	800	2400	8.0	35	10.3	13.5	4	PF406%705400D1x
45	57.5	45	25	52.5	10.2	1.2	20	900	2700	7.5	35	10.2	14.0	4	PF456%705400D1x
50	57.5	45	25	52.5	10.2	1.2	20	1000	3000	7.0	35	8.9	15.5	4	PF506%705400D1x
55	57.5	45	30	52.5	20.3	1.2	20	1100	3300	6.2	35	8.4	17.0	4	PF556%705400D1x
60	57.5	45	30	52.5	20.3	1.2	20	1200	3600	6.0	35	7.3	18.5	4	PF606%705400D1x
65	57.5	50	35	52.5	20.3	1.2	20	1300	3900	5.5	35	6.8	20.0	4	PF656%705400D1x
70	57.5	50	35	52.5	20.3	1.2	20	1400	4200	5.0	35	6.5	21.5	4	PF706%705400D1x
75	57.5	50	35	52.5	20.3	1.2	20	1500	4500	4.5	35	6.0	23.5	4	PF756%705400D1x
80	57.5	50	35	52.5	20.3	1.2	20	1600	4800	4.2	35	5.9	24.5	4	PF806%705400D1x
90	57.5	55	45	52.5	20.3	1.2	20	1800	5400	4.0	35	5.5	26.0	4	PF906%705400D1x
100	57.5	55	45	52.5	20.3	1.2	20	2000	6000	3.4	35	5.2	29.0	4	PF107%705400D1x
110	57.5	55	45	52.5	20.3	1.2	20	2200	6600	3.0	35	5.6	30.0	4	PF117%705400D1x
120	57.5	65	45	52.5	20.3	1.2	20	2400	7200	2.8	35	5.2	32.0	4	PF127%705400D1x
130	57.5	65	45	52.5	20.3	1.2	20	2600	7800	2.6	35	5.3	33.0	4	PF137%705400D1x
140	57.5	65	45	52.5	20.3	1.2	20	2800	8400	2.5	35	5.2	34.0	4	PF147%705400D1x

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 – 800VDC (80)

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									
2	32	18	9	27.5	-	0.8	65	130	390	40.0	25	44.6	2.9	2	PF205%802200D1x
3	32	20	11	27.5	-	0.8	65	195	585	26.0	25	28.5	4.5	2	PF305%802200D1x
4	32	24.5	13	27.5	-	0.8	65	260	780	22.0	25	20.3	5.8	2	PF405%802200D1x
5	32	24.5	15	27.5	-	0.8	65	325	975	14.0	25	19.0	7.5	2	PF505%802200D1x
6	32	30	16	27.5	-	0.8	65	390	1170	12.0	25	17.3	8.5	2	PF605%802200D1x
7	32	30	16	27.5	-	0.8	65	455	1365	11.0	25	15.1	9.5	2	PF705%802200D1x
8	32	33	18	27.5	-	0.8	65	520	1560	10.5	25	13.0	10.5	2	PF805%802200D1x
9	32	33	18	27.5	-	0.8	65	585	1755	10.2	25	11.1	11.5	2	PF905%802200D1x
10	32	37	22	27.5	-	0.8	65	650	1950	9.5	25	11.0	12.0	2	PF106%802210D1x
10	32	37	22	27.5	10.2	1.0	65	650	1950	8.5	25	9.0	14.0	4	PF106%802420D1x
12	32	37	22	27.5	-	0.8	65	780	2340	9.5	25	11.0	12.0	2	PF126%802210D1x
12	32	37	22	27.5	10.2	1.0	65	780	2340	8.0	25	8.3	15.0	4	PF126%802420D1x
14	32	37	22	27.5	-	0.8	65	910	2730	9.5	25	11.0	12.0	2	PF146%802210D1x
14	32	37	22	27.5	10.2	1.0	65	910	2730	7.5	25	7.8	16.0	4	PF146%802420D1x
8	42	30	17	37.5	-	1.0	35	280	840	22.5	28	22.0	5.5	2	PF805%803200D1x
9	42	30	17	37.5	-	1.0	35	315	945	21.5	28	19.4	6.0	2	PF905%803200D1x
10	42	32	19	37.5	-	1.0	35	350	1050	18.0	28	17.0	7.0	2	PF106%803200D1x
12	42	32	19	37.5	-	1.0	35	420	1260	12.0	28	19.5	8.0	2	PF126%803200D1x
14	42	32	19	37.5	-	1.0	35	490	1470	11.0	28	15.1	9.5	2	PF146%803200D1x
15	42	40	20	37.5	10.2	1.2	35	525	1575	9.0	30	10.7	12.5	4	PF156%803400D1x
20	42	44	24	37.5	10.2	1.2	35	700	2100	8.0	30	10.3	13.5	4	PF206%803400D1x
25	42	44	24	37.5	10.2	1.2	35	875	2625	6.5	30	8.5	16.5	4	PF256%803400D1x
30	42	45	30	37.5	20.3	1.2	35	1050	3150	5.8	30	6.5	20.0	4	PF306%803400D1x
35	42	50	35	37.5	20.3	1.2	35	1225	3675	5.5	30	5.6	22.0	4	PF356%803400D1x
40	42	50	35	37.5	20.3	1.2	35	1400	4200	4.8	30	5.0	25.0	4	PF406%803400D1x
45	42	55	40	37.5	20.3	1.2	35	1575	4725	4.0	30	4.8	28.0	4	PF456%803400D1x
50	42	55	40	37.5	20.3	1.2	35	1750	5250	3.6	30	4.3	31.0	4	PF506%803400D1x
55	42	60	45	37.5	20.3	1.2	35	1925	5775	3.4	30	4.2	32.5	4	PF556%803400D1x
60	42	60	45	37.5	20.3	1.2	35	2100	6300	3.2	30	4.1	34.0	4	PF606%803400D1x
65	42	60	45	37.5	20.3	1.2	35	2275	6825	2.8	30	4.4	35.0	4	PF656%803400D1x
25	57.5	45	25	52.5	10.2	1.2	20	500	1500	12.0	35	17.3	8.5	4	PF256%805400D1x
30	57.5	45	25	52.5	10.2	1.2	20	600	1800	10.5	35	14.3	10.0	4	PF306%805400D1x
35	57.5	45	25	52.5	10.2	1.2	20	700	2100	9.5	35	11.0	12.0	4	PF356%805400D1x
40	57.5	45	30	52.5	20.3	1.2	20	800	2400	8.5	35	9.0	14.0	4	PF406%805400D1x
45	57.5	45	30	52.5	20.3	1.2	20	900	2700	7.0	35	8.9	15.5	4	PF456%805400D1x
50	57.5	50	35	52.5	20.3	1.2	20	1000	3000	5.8	35	8.9	17.0	4	PF506%805400D1x
55	57.5	50	35	52.5	20.3	1.2	20	1100	3300	5.5	35	7.6	19.0	4	PF556%805400D1x
60	57.5	50	35	52.5	20.3	1.2	20	1200	3600	4.8	35	7.1	21.0	4	PF606%805400D1x
65	57.5	55	45	52.5	20.3	1.2	20	1300	3900	4.6	35	6.4	22.5	4	PF656%805400D1x
70	57.5	55	45	52.5	20.3	1.2	20	1400	4200	4.5	35	5.8	24.0	4	PF706%805400D1x
75	57.5	55	45	52.5	20.3	1.2	20	1500	4500	4.3	35	5.4	25.5	4	PF756%805400D1x
80	57.5	55	45	52.5	20.3	1.2	20	1600	4800	4.2	35	5.3	26.0	4	PF806%805400D1x
90	57.5	55	45	52.5	20.3	1.2	20	1800	5400	4.0	35	5.0	27.5	4	PF906%805400D1x
100	57.5	65	45	52.5	20.3	1.2	20	2000	6000	3.2	35	4.7	31.5	4	PF107%805400D1x
110	57.5	65	45	52.5	20.3	1.2	20	2200	6600	3.0	35	4.3	34.0	4	PF117%805400D1x

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 – 900VDC (90)

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									
1	32	18	9	27.5	-	0.8	70	70	210	65.0	25	57.7	2.0	2	PF105%902200D1x
2	32	20	11	27.5	-	0.8	70	140	420	38.0	25	38.5	3.2	2	PF205%902200D1x
3	32	22	13	27.5	-	0.8	70	210	630	30.0	25	21.7	4.8	2	PF305%902200D1x
4	32	24.5	15	27.5	-	0.8	70	280	840	20.5	25	20.3	6.0	2	PF405%902200D1x
5	32	30	16	27.5	-	0.8	70	350	1050	12.0	25	22.2	7.5	2	PF505%902200D1x
6	32	33	18	27.5	-	0.8	70	420	1260	11.5	25	21.4	7.8	2	PF605%902200D1x
7	32	33	18	27.5	-	0.8	70	490	1470	10.2	25	13.3	10.5	2	PF705%902200D1x
8	32	37	22	27.5	-	0.8	70	560	1680	9.5	25	11.9	11.5	2	PF805%902210D1x
8	32	37	22	27.5	10.2	1.0	70	560	1680	9.0	25	10.7	12.5	4	PF805%902420D1x
9	32	37	22	27.5	-	0.8	70	630	1890	9.7	25	11.1	11.8	2	PF905%902210D1x
9	32	37	22	27.5	10.2	1.0	70	630	1890	7.8	25	9.8	14.0	4	PF905%902420D1x
10	32	37	22	27.5	-	0.8	70	700	2100	9.5	25	11.0	12.0	2	PF106%902210D1x
10	32	37	22	27.5	10.2	1.0	70	700	2100	7.2	25	8.7	15.5	4	PF106%902420D1x
5	42	30	17	37.5	-	1.0	35	175	525	28.0	28	37.1	3.8	2	PF505%903200D1x
6	42	30	17	37.5	-	1.0	35	210	630	25.0	28	29.6	4.5	2	PF605%903200D1x
7	42	30	17	37.5	-	1.0	35	245	735	22.0	28	27.3	5.0	2	PF705%903200D1x
8	42	32	19	37.5	-	1.0	35	280	840	19.5	28	21.4	6.0	2	PF805%903200D1x
10	42	40	20	37.5	10.2	1.2	35	350	1050	13.0	30	20.5	7.5	4	PF106%903400D1x
12	42	37	22	37.5	10.2	1.2	35	420	1260	11.5	30	16.1	9.0	4	PF126%903400D1x
15	42	44	24	37.5	10.2	1.2	35	525	1575	10.5	30	13.0	10.5	4	PF156%903400D1x
18	42	44	24	37.5	10.2	1.2	35	630	1890	8.8	30	10.1	13.0	4	PF186%903400D1x
20	42	44	24	37.5	10.2	1.2	35	700	2100	7.5	30	9.5	14.5	4	PF206%903400D1x
25	42	45	30	37.5	20.3	1.2	35	875	2625	6.2	30	7.9	17.5	4	PF256%903400D1x
30	42	50	35	37.5	20.3	1.2	35	1050	3150	5.0	30	6.5	21.5	4	PF306%903400D1x
35	42	55	40	37.5	20.3	1.2	35	1225	3675	4.6	30	6.2	23.0	4	PF356%903400D1x
40	42	55	40	37.5	20.3	1.2	35	1400	4200	3.9	30	5.5	26.5	4	PF406%903400D1x
45	42	60	45	37.5	20.3	1.2	35	1575	4725	3.4	30	4.9	30.0	4	PF456%903400D1x
50	42	60	45	37.5	20.3	1.2	35	1750	5250	3.0	30	4.5	33.5	4	PF506%903400D1x
15	57.5	45	25	52.5	10.2	1.2	20	300	900	22.0	35	22.5	5.5	4	PF156%905400D1x
20	57.5	45	25	52.5	10.2	1.2	20	400	1200	13.5	35	19.8	7.5	4	PF206%905400D1x
25	57.5	45	25	52.5	10.2	1.2	20	500	1500	11.5	35	16.1	9.0	4	PF256%905400D1x
30	57.5	45	30	52.5	20.3	1.2	20	600	1800	10.0	35	12.4	11.0	4	PF306%905400D1x
35	57.5	45	30	52.5	20.3	1.2	20	700	2100	9.0	35	10.7	12.5	4	PF356%905400D1x
40	57.5	50	35	52.5	20.3	1.2	20	800	2400	7.5	35	9.5	14.5	4	PF406%905400D1x
45	57.5	50	35	52.5	20.3	1.2	20	900	2700	6.8	35	8.6	16.0	4	PF456%905400D1x
50	57.5	50	35	52.5	20.3	1.2	20	1000	3000	6.4	35	7.2	18.0	4	PF506%905400D1x
55	57.5	55	45	52.5	20.3	1.2	20	1100	3300	5.6	35	6.7	20.0	4	PF556%905400D1x
60	57.5	55	45	52.5	20.3	1.2	20	1200	3600	4.8	35	6.8	21.5	4	PF606%905400D1x
65	57.5	55	45	52.5	20.3	1.2	20	1300	3900	4.5	35	6.3	23.0	4	PF656%905400D1x
70	57.5	65	45	52.5	20.3	1.2	20	1400	4200	4.0	35	6.0	25.0	4	PF706%905400D1x
75	57.5	65	45	52.5	20.3	1.2	20	1500	4500	3.9	35	5.9	25.5	4	PF756%905400D1x
80	57.5	65	45	52.5	20.3	1.2	20	1600	4800	3.8	35	5.6	26.5	4	PF806%905400D1x
85	57.5	65	45	52.5	20.3	1.2	20	1700	5100	3.6	35	5.1	28.5	4	PF856%905400D1x

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 – 1000VDC (10)

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									
1	32	18	9	27.5	-	0.8	75	75	225	65.0	25	57.7	2.0	2	PF105%102200D1x
2	32	22	13	27.5	-	0.8	75	150	450	38.0	25	32.2	3.5	2	PF205%102200D1x
3	32	24.5	15	27.5	-	0.8	75	225	675	22.0	25	27.3	5.0	2	PF305%102200D1x
4	32	30	16	27.5	-	0.8	75	300	900	16.5	25	18.6	7.0	2	PF405%102200D1x
5	32	33	18	27.5	-	0.8	75	375	1125	12.5	25	16.6	8.5	2	PF505%102200D1x
6	32	33	18	27.5	-	0.8	75	450	1350	11.5	25	16.1	9.0	2	PF605%102200D1x
7	32	37	22	27.5	-	0.8	75	525	1575	11.0	25	15.1	9.5	2	PF705%102210D1x
7	32	37	22	27.5	10.2	1.0	75	525	1575	9.8	25	11.6	11.5	4	PF705%102420D1x
8	32	37	22	27.5	-	0.8	75	600	1800	10.5	25	13.0	10.5	2	PF805%102210D1x
8	32	37	22	27.5	10.2	1.0	75	600	1800	8.8	25	10.1	13.0	4	PF805%102420D1x
5	42	30	17	37.5	-	1.0	35	175	525	28.0	28	37.1	3.8	2	PF505%103200D1x
6	42	30	17	37.5	-	1.0	35	210	630	25.0	28	29.6	4.5	2	PF605%103200D1x
7	42	30	17	37.5	-	1.0	35	245	735	22.0	28	27.3	5.0	2	PF705%103200D1x
8	42	32	19	37.5	-	1.0	35	280	840	19.5	28	21.4	6.0	2	PF805%103200D1x
10	42	40	20	37.5	10.2	1.2	35	350	1050	13.0	30	20.5	7.5	4	PF106%103400D1x
12	42	37	22	37.5	10.2	1.2	35	420	1260	11.5	30	16.1	9.0	4	PF126%103400D1x
15	42	44	24	37.5	10.2	1.2	35	525	1575	10.0	30	11.3	11.5	4	PF156%103400D1x
18	42	45	30	37.5	20.3	1.2	35	630	1890	7.8	30	9.8	14.0	4	PF186%103400D1x
20	42	45	30	37.5	20.3	1.2	35	700	2100	7.0	30	8.9	15.5	4	PF206%103400D1x
25	42	50	35	37.5	20.3	1.2	35	875	2625	5.5	30	7.2	19.5	4	PF256%103400D1x
30	42	55	40	37.5	20.3	1.2	35	1050	3150	4.6	30	6.2	23.0	4	PF306%103400D1x
35	42	55	40	37.5	20.3	1.2	35	1225	3675	4.0	30	6.0	25.0	4	PF356%103400D1x
40	42	60	45	37.5	20.3	1.2	35	1400	4200	3.6	30	5.1	28.5	4	PF406%103400D1x
15	57.5	45	25	52.5	10.2	1.2	20	300	900	19.8	35	22.5	5.8	4	PF156%105400D1x
20	57.5	45	25	52.5	10.2	1.2	20	400	1200	13.5	35	19.8	7.5	4	PF206%105400D1x
25	57.5	45	25	52.5	10.2	1.2	20	500	1500	11.0	35	15.1	9.5	4	PF256%105400D1x
30	57.5	45	30	52.5	20.3	1.2	20	600	1800	9.8	35	11.6	11.5	4	PF306%105400D1x
35	57.5	45	30	52.5	20.3	1.2	20	700	2100	8.0	35	10.3	13.5	4	PF356%105400D1x
40	57.5	50	35	52.5	20.3	1.2	20	800	2400	7.0	35	8.9	15.5	4	PF406%105400D1x
45	57.5	55	45	52.5	20.3	1.2	20	900	2700	6.2	35	7.9	17.5	4	PF456%105400D1x
50	57.5	55	45	52.5	20.3	1.2	20	1000	3000	5.8	35	6.8	19.5	4	PF506%105400D1x
55	57.5	55	45	52.5	20.3	1.2	20	1100	3300	5.0	35	6.8	21.0	4	PF556%105400D1x
60	57.5	65	45	52.5	20.3	1.2	20	1200	3600	4.6	35	6.2	23.0	4	PF606%105400D1x
65	57.5	65	45	52.5	20.3	1.2	20	1300	3900	4.2	35	5.7	25.0	4	PF656%105400D1x
70	57.5	65	45	52.5	20.3	1.2	20	1400	4200	3.8	35	5.4	27.0	4	PF706%105400D1x

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 – 1100VDC (11)

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)	I _{rms} 10KHz 70 $^{\circ}$ C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
1	32	20	11	27.5	-	0.8	80	80	240	65.0	25	47.7	2.2	2	PF105%112200D1x
1.5	32	22	13	27.5	-	0.8	80	120	360	46.0	25	52.2	2.5	2	PF155%112200D1x
2	32	24.5	13	27.5	-	0.8	80	160	480	24.5	25	26.6	4.8	2	PF205%112200D1x
3	32	30	16	27.5	-	0.8	80	240	720	18.5	25	19.2	6.5	2	PF305%112200D1x
4	32	33	18	27.5	-	0.8	80	320	960	12.5	25	16.6	8.5	2	PF405%112200D1x
5	32	37	22	27.5	-	0.8	80	400	1200	10.8	25	14.5	9.8	2	PF505%112210D1x
5	32	37	22	27.5	10.2	1.0	80	400	1200	10.5	25	13.0	10.5	4	PF505%112420D1x
6	32	37	22	27.5	-	0.8	80	480	1440	10.5	25	13.0	10.5	2	PF605%112210D1x
6	32	37	22	27.5	10.2	1.0	80	480	1440	8.8	25	10.1	13.0	4	PF605%112420D1x
3	42	30	17	37.5	-	1.0	40	120	360	46.0	28	52.2	2.5	2	PF305%113200D1x
4	42	30	17	37.5	-	1.0	40	160	480	32.5	28	37.7	3.5	2	PF405%113200D1x
4.7	42	32	19	37.5	-	1.0	40	188	564	28.0	28	33.5	4.0	2	PF475%113200D1x
5	42	32	19	37.5	-	1.0	40	200	600	26.0	28	32.7	4.2	2	PF505%113200D1x
6	42	32	19	37.5	-	1.0	40	240	720	23.5	28	25.5	5.0	2	PF605%113200D1x
7	42	40	20	37.5	10.2	1.2	40	280	840	18.5	30	22.5	6.0	4	PF705%113400D1x
8	42	37	22	37.5	10.2	1.2	40	320	960	16.5	30	21.5	6.5	4	PF805%113400D1x
9	42	37	22	37.5	10.2	1.2	40	360	1080	13.0	30	20.5	7.5	4	PF905%113400D1x
10	42	44	24	37.5	10.2	1.2	40	400	1200	12.0	30	17.3	8.5	4	PF106%113400D1x
12	42	44	24	37.5	10.2	1.2	40	480	1440	10.8	30	13.9	10.0	4	PF126%113400D1x
14	42	45	30	37.5	20.3	1.2	40	560	1680	9.5	30	11.0	12.0	4	PF146%113400D1x
15	42	45	30	37.5	20.3	1.2	40	600	1800	8.5	30	10.4	13.0	4	PF156%113400D1x
18	42	50	35	37.5	20.3	1.2	40	720	2160	7.0	30	9.5	15.0	4	PF186%113400D1x
20	42	50	35	37.5	20.3	1.2	40	800	2400	6.5	30	8.5	16.5	4	PF206%113400D1x
25	42	55	40	37.5	20.3	1.2	40	1000	3000	5.0	30	7.1	20.5	4	PF256%113400D1x
30	42	60	45	37.5	20.3	1.2	40	1200	3600	4.3	30	5.8	24.5	4	PF306%113400D1x
15	57.5	45	25	52.5	10.2	1.2	20	300	900	16.5	35	21.5	6.5	4	PF156%115400D1x
20	57.5	45	30	52.5	20.3	1.2	20	400	1200	11.5	35	16.1	9.0	4	PF206%115400D1x
25	57.5	50	35	52.5	20.3	1.2	20	500	1500	10.0	35	12.4	11.0	4	PF256%115400D1x
30	57.5	50	35	52.5	20.3	1.2	20	600	1800	8.6	35	10.3	13.0	4	PF306%115400D1x
35	57.5	55	45	52.5	20.3	1.2	20	700	2100	7.5	35	9.5	14.5	4	PF356%115400D1x
40	57.5	55	45	52.5	20.3	1.2	20	800	2400	6.8	35	8.6	16.0	4	PF406%115400D1x
45	57.5	55	45	52.5	20.3	1.2	20	900	2700	6.2	35	7.9	17.5	4	PF456%115400D1x
50	57.5	65	45	52.5	20.3	1.2	20	1000	3000	5.6	35	7.0	19.5	4	PF506%115400D1x
55	57.5	65	45	52.5	20.3	1.2	20	1100	3300	4.8	35	6.8	21.5	4	PF556%115400D1x

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 – 1200VDC (12)

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)	I _{rms} 10KHz 70 $^{\circ}$ C (A)	No of Pin	Part Number
	L	H	T	P	P1	d									
1	32	20	11	27.5	-	0.8	90	90	270	35.0	25	35.0	3.5	2	PF105%122200D1x
2	32	24.5	15	27.5	-	0.8	90	180	540	24.0	25	25.0	5.0	2	PF205%122200D1x
3	32	30	16	27.5	-	0.8	90	270	810	13.0	25	20.5	7.5	2	PF305%122200D1x
4	32	33	18	27.5	-	0.8	90	360	1080	11.0	25	15.1	9.5	2	PF405%122200D1x
5	32	37	22	27.5	-	0.8	90	450	1350	10.5	25	13.0	10.5	2	PF505%122210D1x
5	32	37	22	27.5	10.2	1.0	90	450	1350	9.5	25	11.0	12.0	4	PF505%122420D1x
3	42	30	17	37.5	-	1.0	45	135	405	35.0	28	41.9	3.2	2	PF305%123200D1x
4	42	30	17	37.5	-	1.0	45	180	540	28.0	28	30.4	4.2	2	PF405%123200D1x
5	42	32	19	37.5	-	1.0	45	225	675	21.5	28	23.1	5.5	2	PF505%123200D1x
6	42	40	20	37.5	10.2	1.2	45	270	810	16.5	30	21.5	6.5	4	PF605%123400D1x
7	42	37	22	37.5	10.2	1.2	45	315	945	13.0	30	20.5	7.5	4	PF705%123400D1x
8	42	44	24	37.5	10.2	1.2	45	360	1080	12.0	30	17.3	8.5	4	PF805%123400D1x
9	42	44	24	37.5	10.2	1.2	45	405	1215	10.8	30	13.9	10.0	4	PF905%123400D1x
10	42	44	24	37.5	10.2	1.2	45	450	1350	10.0	30	12.4	11.0	4	PF106%123400D1x
12	42	45	30	37.5	20.3	1.2	45	540	1620	8.5	30	10.4	13.0	4	PF126%123400D1x
15	42	50	35	37.5	20.3	1.2	45	675	2025	6.8	30	8.6	16.0	4	PF156%123400D1x
18	42	50	35	37.5	20.3	1.2	45	810	2430	6.2	30	7.5	18.0	4	PF186%123400D1x
20	42	55	40	37.5	20.3	1.2	45	900	2700	5.5	30	6.8	20.0	4	PF206%123400D1x
25	42	60	45	37.5	20.3	1.2	45	1125	3375	4.3	30	5.6	25.0	4	PF256%123400D1x
12	57.5	45	25	52.5	10.2	1.2	25	300	900	16.5	35	21.5	6.5	4	PF126%125400D1x
15	57.5	45	25	52.5	10.2	1.2	25	375	1125	13.0	35	20.5	7.5	4	PF156%125400D1x
20	57.5	45	30	52.5	20.3	1.2	25	500	1500	10.0	35	12.4	11.0	4	PF206%125400D1x
25	57.5	50	35	52.5	20.3	1.2	25	625	1875	8.6	35	10.3	13.0	4	PF256%125400D1x
30	57.5	55	45	52.5	20.3	1.2	25	750	2250	7.5	35	9.5	14.5	4	PF306%125400D1x
35	57.5	55	45	52.5	20.3	1.2	25	875	2625	6.8	35	8.6	16.0	4	PF356%125400D1x
40	57.5	65	45	52.5	20.3	1.2	25	1000	3000	5.5	35	6.8	20.0	4	PF406%125400D1x
45	57.5	65	45	52.5	20.3	1.2	25	1125	3375	4.8	35	6.2	22.5	4	PF456%125400D1x

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

ENVIRONMENTAL TEST

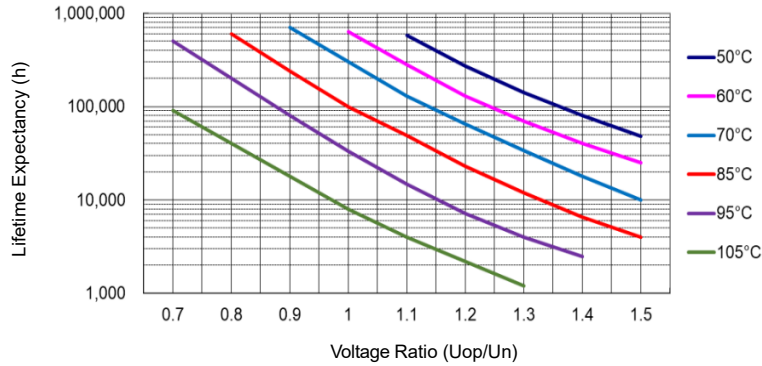
Item	Test Condition	Performance																					
Temperature Humidity Bias (THB) Test	Temperature: +85 ±2°C, Humidity: 85% RH, Duration: 2000 +24/0 hours Loading Voltage: rated voltage Stabilized for 4 hours at standard temperature and humidity before measurements.	ΔC/C: ≤ ± 10% DF: ≤ 150*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																					
Operational Life	Temperature: +85 ±2°C, Apply 130% 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" style="width: 100%; border-collapse: collapse;"> <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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Item</th> <th>D ≤0.80mm</th> <th>0.80 < D ≤1.2mm</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	D ≤0.80mm	0.80 < D ≤1.2mm	Condition	Tension	10N	20N	Make two successive bends in each direction	Bending	5N	10N	No visible damage										
Item	D ≤0.80mm	0.80 < D ≤1.2mm	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/s ² , Duration of pulse: 11 ms																						
Bump	Total number of bumps: 1000 times or 4000 times, Acceleration: 400 m/s ² , Pulse duration: 6 ms																						

Notes:

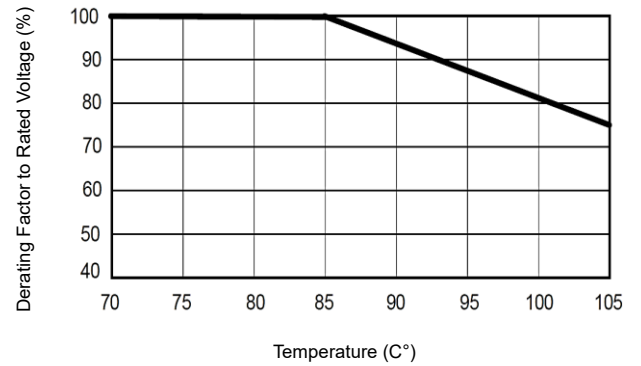
1. Ambient Temp: 15°C to 35°C, Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
2. Storage needs to be kept indoors at -10~+40°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around
3. Do not apply and exceeding vibration, shock (dropping) and pressure
4. Reference Standards: IEC 61071, JESD22 Method JA-104, MIL-STD-202, J-STD-002

CHARACTERISTIC CURVE

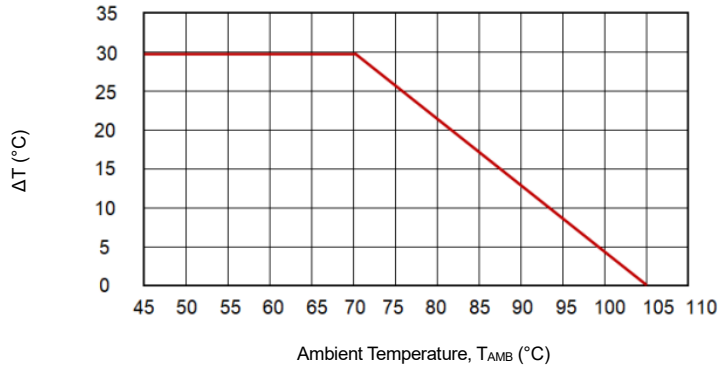
Lifetime Expectancy



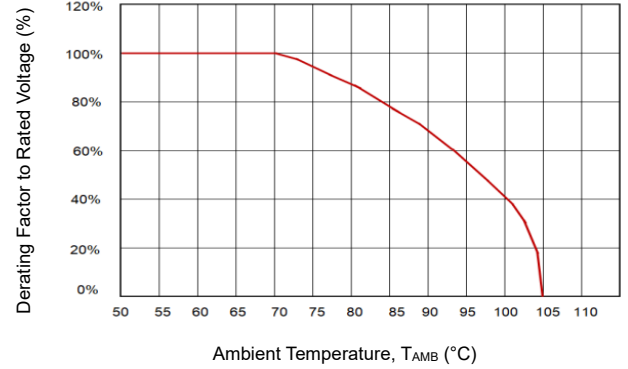
Rated Voltage vs Temperature



Maximum Over-Temperature (ΔT) Vs Ambient Temperature (T_{AMB})



Maximum I_{RMS} Vs Ambient Temperature (T_{AMB})



*Specifications subject to change without notice.