

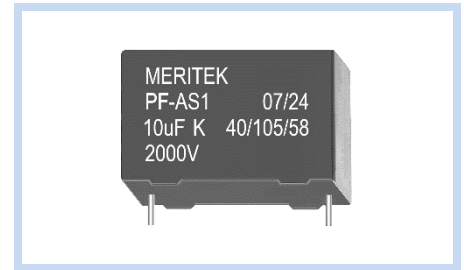
Power Film Capacitor High Pulse, Resonant, HF Applications

PF-AS1 Series

MERITEK

FEATURE

- Double Metallized PP Film, Self-Healing Property
- High Voltage, High Ripple Current Capability
- Low Losses, High Frequency Performance
- Applications: Pulse Circuit, Switch-Mode Power Supply, Snubber, SCR and IGBT Modules, High Frequency AC Loads



ELECTRICAL CHARACTERISTICS

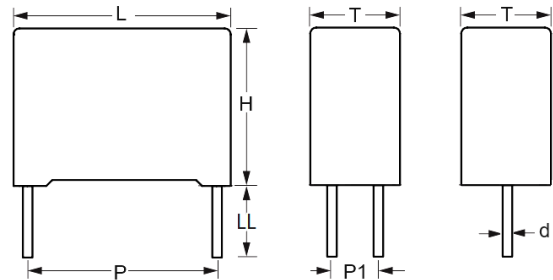
Item	Characteristic				
Operating Temperature	-40~+105°C (85°C~105°C Decreasing factor 1.25% per °C for Rated Voltage)				
Capacitance Range	0.001 μF~0.39 μF, ±5%(J), ±10%(K) at +25°C				
Climatic Category	40/105/56 IEC60068-1				
Dissipation Factor	0.001, at 1KHz; at 25°C				
Operating Voltage	630VDC / 400VAC	1000VDC / 600VAC	1300VDC / 620VAC	1600VDC / 650VAC	2000VDC / 700VAC
Max Ripple Current	1.8~10	1.5~7	1.7~8.5	1.1~6.5	0.5~6.5
Overvoltage	110% of Vr	115%	120%	130%	Max duration Per day
	30% of On-Load	30mins	5mins	1min	
Insulation Resistance	R > 100,000MΩ for C ≤ 0.33 μF		Between leads, at 100 V, 60 sec		
	RC > 30,000MΩ*μF for C > 0.33 μF		Between leads, at 100 V, 60 sec		
Withstanding Voltage	(1.5* Vr) VDC for 60sec		Between Terminal, at 25°C±5°C		
	2000VAC, for 60sec		Between Terminal and Case, at 25 ±2°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	d ±0.05mm	L±0.5mm
2-pin	15.0	0.8	18
2-pin	22.5	0.8	26

Note:

1. L±1.0mm, H±1mm, T±1mm, See the table below for dimension
2. LL Options: 3mm, 4mm, 5mm, 7mm, 15mm Min
3. Pitch Code: 15mm (1), 22.5mm(A), 27.5mm (2), 37.5mm (3)



PART NUMBERING SYSTEM

PF 563K 20 220 AS1 5
(1) (2) (3) (4) (5) (6)

No	Item	Code	Description	
(1)	Product Code	PF	Power Film Capacitor, Metallized PP Film type	
(2)	Nominal Capacitance	563K	0.056 μF ±10%(K)	First two digits: Significant, Third: Multiplier
(3)	Rated DC Voltage Code	20	20: 2000VDC	First two digits of Operating DC Voltage, V _{NDC}
(4)	Internal Code	220	2: 22mm pitch, 2: 2pins, 0: Case Code	See the electrical specification table below
(5)	Series Code	AS1	Pulse Capacitor Series, Box Type	
(6)	Option Code	5	5: LL 5mm Bulk package	Blank: LL: 15mm min, 4: LL 4mm, Bulk package

ELECTRICAL SPECIFICATION – 630VDC (63) / 400VAC

CAP (uF)	Dimensions (mm)					dv/dt (V/us)	Peak Current (A)	ESR 10KHz (mΩ)	ESL (nH)	I _{rms} 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	d							
0.010	18.0	11.0	5.0	15.0	0.8	3000	30	62	12	1.8	2	PF103%63120AS1x
0.012	18.0	11.0	5.0	15.0	0.8	3000	36	52	12	2.2	2	PF123%63120AS1x
0.015	18.0	11.0	5.0	15.0	0.8	3000	45	42	12	2.5	2	PF153%63120AS1x
0.018	18.0	11.0	5.0	15.0	0.8	3000	54	35	12	2.7	2	PF183%63120AS1x
0.020	18.0	11.0	5.0	15.0	0.8	3000	60	32	12	2.8	2	PF203%63120AS1x
0.022	18.0	11.0	5.0	15.0	0.8	3000	66	30	12	2.9	2	PF223%63120AS1x
0.027	18.0	12.0	6.0	15.0	0.8	3000	81	25	12	3.2	2	PF273%63120AS1x
0.033	18.0	12.0	6.0	15.0	0.8	3000	99	20	12	3.7	2	PF333%63120AS1x
0.039	18.0	12.0	6.0	15.0	0.8	3000	117	16	12	3.9	2	PF393%63120AS1x
0.047	18.0	13.5	7.5	15.0	0.8	3000	141	15	12	4.5	2	PF473%63120AS1x
0.056	18.0	13.5	7.5	15.0	0.8	3000	168	14	12	4.6	2	PF563%63120AS1x
0.068	18.0	14.5	8.5	15.0	0.8	3000	204	13.5	12	4.7	2	PF683%63120AS1x
0.082	18.0	16.0	10	15.0	0.8	3000	246	13.2	12	4.8	2	PF823%63120AS1x
0.10	18.0	16.0	10	15.0	0.8	3000	300	13	12	5.0	2	PF104%63120AS1x
0.12	18.0	19.0	11	15.0	0.8	3000	360	12.5	12	5.4	2	PF124%63120AS1x
0.047	26.0	15.5	6.0	22.5	0.8	1500	70.5	20	15	3.8	2	PF473%63A20AS1x
0.056	26.0	15.5	6.0	22.5	0.8	1500	84	19.5	15	4.0	2	PF563%63A20AS1x
0.068	26.0	15.5	6.0	22.5	0.8	1500	102	19	15	4.2	2	PF683%63A20AS1x
0.082	26.0	15.5	6.0	22.5	0.8	1500	123	18	15	4.5	2	PF823%63A20AS1x
0.10	26.0	15.5	6.0	22.5	0.8	1500	150	16	15	5.0	2	PF104%63A20AS1x
0.12	26.0	16.5	7.0	22.5	0.8	1500	180	14	15	5.3	2	PF124%63A20AS1x
0.15	26.0	17.0	8.5	22.5	0.8	1500	225	11	15	6.0	2	PF154%63A20AS1x
0.18	26.0	17.0	8.5	22.5	0.8	1500	270	10	15	6.5	2	PF184%63A20AS1x
0.22	26.0	19.0	10	22.5	0.8	1500	330	8.5	15	7.5	2	PF224%63A20AS1x
0.27	26.0	20.0	11	22.5	0.8	1500	405	6.5	15	8.5	2	PF274%63A20AS1x
0.33	26.0	20.0	11	22.5	0.8	1500	495	6	15	9.0	2	PF334%63A20AS1x
0.39	26.0	22.0	12	22.5	0.8	1500	585	5	15	10.0	2	PF394%63A20AS1x

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

ELECTRICAL SPECIFICATION – 1000VDC (10) / 600VAC

CAP (uF)	Dimensions (mm)					dv/dt (V/us)	Peak Current (A)	ESR 10KHz (mΩ)	ESL (nH)	I _{rms} 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	d							
0.0082	18.0	11.0	5.0	15.0	0.8	3500	28.7	80	10	1.5	2	PF822%10120AS1x
0.010	18.0	11.0	5.0	15.0	0.8	3500	35	62	12	1.8	2	PF103%10120AS1x
0.012	18.0	11.0	5.0	15.0	0.8	3500	42	52	12	2.2	2	PF123%10120AS1x
0.015	18.0	11.0	5.0	15.0	0.8	3500	52.5	42	12	2.5	2	PF153%10120AS1x
0.018	18.0	11.0	5.0	15.0	0.8	3500	63	35	12	2.7	2	PF183%10120AS1x
0.020	18.0	12.0	6.0	15.0	0.8	3500	70	32	10	2.8	2	PF203%10120AS1x
0.022	18.0	12.0	6.0	15.0	0.8	3500	77	29	10	3.0	2	PF223%10120AS1x
0.027	18.0	13.5	7.5	15.0	0.8	3500	94.5	24	12	3.5	2	PF273%10120AS1x
0.033	18.0	13.5	7.5	15.0	0.8	3500	115.5	19	12	4.0	2	PF333%10120AS1x
0.039	18.0	14.5	8.5	15.0	0.8	3500	136.5	16	12	4.5	2	PF393%10120AS1x
0.047	18.0	14.5	8.5	15.0	0.8	3500	164.5	14	12	4.9	2	PF473%10120AS1x
0.027	26.0	15.5	6.0	22.5	0.8	2100	56.7	24	15	3.8	2	PF273%10A20AS1x
0.033	26.0	15.5	6.0	22.5	0.8	2100	69.3	19	15	4.3	2	PF333%10A20AS1x
0.039	26.0	15.5	6.0	22.5	0.8	2100	81.9	16	15	4.8	2	PF393%10A20AS1x
0.047	26.0	16.5	7.0	22.5	0.8	2100	98.7	15	15	5.0	2	PF473%10A20AS1x
0.056	26.0	16.5	7.0	22.5	0.8	2100	117.6	14.5	15	5.4	2	PF563%10A20AS1x
0.068	26.0	17.0	8.5	22.5	0.8	2100	142.8	14	15	5.6	2	PF683%10A20AS1x
0.082	26.0	19.0	10	22.5	0.8	2100	172.2	13.5	15	5.8	2	PF823%10A20AS1x
0.10	26.0	19.0	10	22.5	0.8	2100	210	13	15	6.0	2	PF104%10A20AS1x
0.12	26.0	20.0	11	22.5	0.8	1500	180	12.5	15	6.5	2	PF124%10A20AS1x
0.15	26.0	22.0	12	22.5	0.8	1500	225	11	15	7.0	2	PF154%10A20AS1x

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

ELECTRICAL SPECIFICATION – 1300VDC(13) / 620VAC

CAP (μ F)	Dimensions (mm)					dv/dt (V/us)	Peak Current (A)	ESR 10KHz (m Ω)	ESL (nH)	Irms 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	d							
0.0082	18.0	11.0	5.0	15.0	0.8	3500	28.7	95	10	1.7	2	PF822%13120AS1x
0.010	18.0	11.0	5.0	15.0	0.8	3500	35	65	12	2.0	2	PF103%13120AS1x
0.012	18.0	11.0	5.0	15.0	0.8	3500	42	52	12	2.2	2	PF123%13120AS1x
0.015	18.0	11.0	5.0	15.0	0.8	3500	52.5	42	12	2.5	2	PF153%13120AS1x
0.018	18.0	12.0	6.0	15.0	0.8	3500	63	38	12	2.8	2	PF183%13120AS1x
0.020	18.0	12.0	6.0	15.0	0.8	3500	70	36	10	2.9	2	PF203%13120AS1x
0.022	18.0	13.0	7.0	15.0	0.8	3500	77	32	10	3.1	2	PF223%13120AS1x
0.027	18.0	13.5	7.5	15.0	0.8	3500	94.5	26	12	3.7	2	PF273%13120AS1x
0.033	18.0	14.5	8.5	15.0	0.8	3500	115.5	19	12	4.0	2	PF333%13120AS1x
0.039	18.0	16.0	9.0	15.0	0.8	3500	136.5	16	12	4.5	2	PF393%13120AS1x
0.047	18.0	16.0	10	15.0	0.8	3500	164.5	15	12	4.8	2	PF473%13120AS1x
0.056	18.0	19.0	11	15.0	0.8	3500	196	14	12	5.0	2	PF563%13120AS1x
0.027	26.0	15.5	6.0	22.5	0.8	2100	56.7	24	15	3.5	2	PF273%13A20AS1x
0.033	26.0	15.5	6.0	22.5	0.8	2100	69.3	19	15	4.0	2	PF333%13A20AS1x
0.039	26.0	15.5	6.0	22.5	0.8	2100	81.9	16	15	4.8	2	PF393%13A20AS1x
0.047	26.0	16.5	7.0	22.5	0.8	2100	98.7	15	15	5.0	2	PF473%13A20AS1x
0.056	26.0	16.5	7.0	22.5	0.8	2100	117.6	14.5	15	5.4	2	PF563%13A20AS1x
0.068	26.0	17.0	8.5	22.5	0.8	2100	142.8	14	15	6.0	2	PF683%13A20AS1x
0.082	26.0	19.0	10	22.5	0.8	2100	172.2	13.5	15	6.5	2	PF823%13A20AS1x
0.10	26.0	19.0	10	22.5	0.8	2100	210	13	15	7.0	2	PF104%13A20AS1x
0.12	26.0	20.0	11	22.5	0.8	1500	180	12.5	15	6.5	2	PF124%13A20AS1x
0.15	26.0	22.0	12	22.5	0.8	1500	225	12	15	7.0	2	PF154%13A20AS1x
0.18	26.0	24.5	13	22.5	0.8	1500	270	11	15	7.5	2	PF184%13A20AS1x
0.22	26.0	29.5	14.5	22.5	0.8	1500	330	9.5	15	8.5	2	PF224%13A20AS1x

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 – 1600VDC(16) / 650VAC

CAP (μ F)	Dimensions (mm)					dv/dt (V/us)	Peak Current (A)	ESR 10KHz (m Ω)	ESL (nH)	Irms 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	d							
0.0033	18.0	11.0	5.0	15.0	0.8	6000	19.8	190	12	1.1	2	PF332%16120AS1x
0.0047	18.0	11.0	5.0	15.0	0.8	6000	28.2	165	12	1.3	2	PF472%16120AS1x
0.0056	18.0	11.0	5.0	15.0	0.8	6000	33.6	120	12	1.4	2	PF562%16120AS1x
0.0068	18.0	11.0	5.0	15.0	0.8	6000	40.8	100	12	1.6	2	PF682%16120AS1x
0.0082	18.0	11.0	5.0	15.0	0.8	6000	49.2	95	12	1.8	2	PF822%16120AS1x
0.010	18.0	11.0	5.0	15.0	0.8	6000	60	65	12	2.0	2	PF103%16120AS1x
0.012	18.0	12.0	6.0	15.0	0.8	6000	72	50	12	2.3	2	PF123%16120AS1x
0.015	18.0	12.0	6.0	15.0	0.8	6000	90	45	12	2.5	2	PF153%16120AS1x
0.018	18.0	13.5	7.5	15.0	0.8	6000	108	35	12	3.0	2	PF183%16120AS1x
0.022	18.0	13.5	7.5	15.0	0.8	6000	132	30	12	3.2	2	PF223%16120AS1x
0.027	18.0	14.5	8.5	15.0	0.8	6000	162	25	12	3.8	2	PF273%16120AS1x
0.033	18.0	14.5	8.5	15.0	0.8	6000	198	20	12	4.0	2	PF333%16120AS1x
0.015	26.0	15.5	6.0	22.5	0.8	3000	45	40	15	2.8	2	PF153%16A20AS1x
0.022	26.0	15.5	6.0	22.5	0.8	3000	66	30	15	3.5	2	PF223%16A20AS1x
0.033	26.0	15.5	6.0	22.5	0.8	3000	99	20	15	4.0	2	PF333%16A20AS1x
0.039	26.0	16.5	7.0	22.5	0.8	3000	117	16	15	4.8	2	PF393%16A20AS1x
0.047	26.0	16.5	7.0	22.5	0.8	3000	141	15	15	5.2	2	PF473%16A20AS1x
0.056	26.0	17.0	8.5	22.5	0.8	3000	168	14	15	5.4	2	PF563%16A20AS1x
0.068	26.0	19.0	10	22.5	0.8	3000	204	13	15	5.8	2	PF683%16A20AS1x
0.082	26.0	19.0	10	22.5	0.8	3000	246	12	15	6.0	2	PF823%16A20AS1x
0.10	26.0	20.0	11	22.5	0.8	3000	300	11	15	6.5	2	PF104%16A20AS1x

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 – 2000VDC(3D) / 700VAC

CAP (μ F)	Dimensions (mm)					dv/dt (V/ μ s)	Peak Current (A)	ESR 10KHz (m Ω)	ESL (nH)	I _{rms} 10KHz 70°C (A)	No of Pin	Part Number
	L	H	T	P	d							
0.001	18.0	11.0	5.0	15.0	0.8	9500	9.5	630	12	0.5	2	PF102%20120AS1x
0.0012	18.0	11.0	5.0	15.0	0.8	9500	11.4	500	12	0.6	2	PF122%20120AS1x
0.0015	18.0	11.0	5.0	15.0	0.8	9500	14.25	420	12	0.7	2	PF120%20120AS1x
0.0018	18.0	11.0	5.0	15.0	0.8	9500	17.1	350	12	0.8	2	PF182%20120AS1x
0.0022	18.0	11.0	5.0	15.0	0.8	9500	20.9	300	12	0.9	2	PF222%20120AS1x
0.0027	18.0	11.0	5.0	15.0	0.8	9500	25.65	240	12	1.0	2	PF272%20120AS1x
0.0033	18.0	11.0	5.0	15.0	0.8	9500	31.35	190	12	1.2	2	PF332%20120AS1x
0.0039	18.0	11.0	5.0	15.0	0.8	9500	37.05	165	12	1.3	2	PF392%20120AS1x
0.0047	18.0	11.0	5.0	15.0	0.8	9500	44.65	135	12	1.4	2	PF472%20120AS1x
0.0056	18.0	12.0	6.0	15.0	0.8	9500	53.2	110	12	1.6	2	PF562%20120AS1x
0.0068	18.0	12.0	6.0	15.0	0.8	9500	64.6	95	12	1.8	2	PF682%20120AS1x
0.0082	18.0	12.0	6.0	15.0	0.8	9500	77.9	80	12	2.0	2	PF822%20120AS1x
0.010	18.0	13.5	7.5	15.0	0.8	9500	95	65	12	2.5	2	PF103%20120AS1x
0.012	18.0	14.5	8.5	15.0	0.8	9500	114	50	12	2.8	2	PF123%20120AS1x
0.015	18.0	14.5	8.5	15.0	0.8	9500	142.5	45	12	3.0	2	PF153%20120AS1x
0.018	18.0	16.0	10	15.0	0.8	9500	171	35	12	3.8	2	PF183%20120AS1x
0.001	26.0	15.5	6.0	22.5	0.8	4500	4.5	550	15	0.6	2	PF102%20A20AS1x
0.0012	26.0	15.5	6.0	22.5	0.8	4500	5.4	450	15	0.7	2	PF122%20A20AS1x
0.0015	26.0	15.5	6.0	22.5	0.8	4500	6.75	360	15	0.8	2	PF152%20A20AS1x
0.0018	26.0	15.5	6.0	22.5	0.8	4500	8.1	300	15	0.9	2	PF182%20A20AS1x
0.0022	26.0	15.5	6.0	22.5	0.8	4500	9.9	250	15	1.0	2	PFA20%20A20AS1x
0.0027	26.0	15.5	6.0	22.5	0.8	4500	12.15	230	15	1.2	2	PF272%20A20AS1x
0.0033	26.0	15.5	6.0	22.5	0.8	4500	14.85	200	15	1.2	2	PF332%20A20AS1x
0.0039	26.0	15.5	6.0	22.5	0.8	4500	17.55	180	15	1.4	2	PF392%20A20AS1x
0.0047	26.0	15.5	6.0	22.5	0.8	4500	21.15	140	15	1.6	2	PF472%20A20AS1x
0.0056	26.0	15.5	6.0	22.5	0.8	4500	25.2	120	15	1.8	2	PF562%20A20AS1x
0.0068	26.0	15.5	6.0	22.5	0.8	4500	30.6	95	15	2.0	2	PF682%20A20AS1x
0.0082	26.0	15.5	6.0	22.5	0.8	4500	36.9	75	15	2.2	2	PF822%20A20AS1x
0.010	26.0	15.5	6.0	22.5	0.8	4500	45	65	15	2.3	2	PF103%20A20AS1x
0.012	26.0	15.5	6.0	22.5	0.8	4500	54	60	15	2.5	2	PF123%20A20AS1x
0.015	26.0	15.5	6.0	22.5	0.8	4500	67.5	45	15	2.8	2	PF153%20A20AS1x
0.018	26.0	15.5	6.0	22.5	0.8	4500	81	35	15	3.2	2	PF183%20A20AS1x
0.022	26.0	16.5	7.0	22.5	0.8	4500	99	26	15	4.0	2	PF223%20A20AS1x
0.027	26.0	16.5	7.0	22.5	0.8	4500	121.5	20	15	4.5	2	PF273%20A20AS1x
0.033	26.0	17.0	8.5	22.5	0.8	4500	148.5	18	15	5.2	2	PF333%20A20AS1x
0.039	26.0	19.0	10	22.5	0.8	4500	175.5	15	15	5.8	2	PF393%20A20AS1x
0.047	26.0	19.0	10	22.5	0.8	4500	211.5	13	15	6.0	2	PF473%20A20AS1x
0.056	26.0	20.0	11	22.5	0.8	4500	252	12	15	6.5	2	PF563%20A20AS1x

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

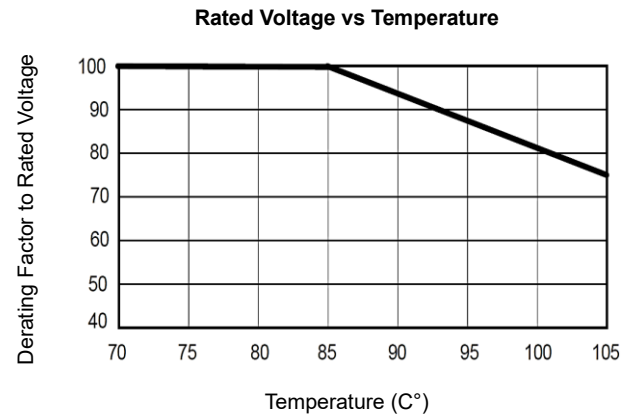
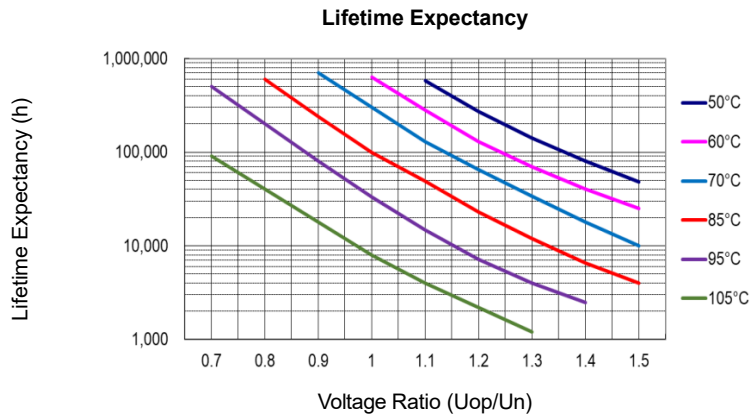
ENVIRONMENTAL TEST

Item	Test Condition	Performance																		
Damp Heat Loading	Temperature: +40 ± 2°C, RH: 90% to 95%, Duration: 1000+24/-0 hours Loading Voltage: rated voltage	ΔC/C: ≤ ± 5% DF: ≤ 50*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																		
High Temperature Loading	Temperature: +85 ± 2 °C, Duration: 1000 hours Apply 125% of Rated Voltage for 1,000 +24/-0 hours.	ΔC/C: ≤ ± 5% DF: ≤ 15*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	ΔC/C: ≤ ± 3% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																		
Humidity Resistance	Temperature: +40°C ± 2°C, RH: 90% to 95%, Duration: 1344 +24/-0 hours	ΔC/C: ≤ ± 5% DF: ≤ 15*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: ≤ ± 2% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit																		
Temperature Cycle	Test Temperature Cycle: Total 5 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> </tr> </thead> <tbody> <tr> <td>Temp (°C)</td> <td>+20±2</td> <td>-40±3</td> <td>+20±2</td> <td>+105±3</td> <td>+20±2</td> </tr> <tr> <td>Time (mins)</td> <td>3</td> <td>30</td> <td>3</td> <td>30</td> <td>3</td> </tr> </tbody> </table>	Cycle	1	2	3	4	5	Temp (°C)	+20±2	-40±3	+20±2	+105±3	+20±2	Time (mins)	3	30	3	30	3	ΔC/C: ≤ ± 5% DF: ≤ 15*10 ⁻⁴ at 1 KHz IR: ≥ 50% of initial limit
Cycle	1	2	3	4	5															
Temp (°C)	+20±2	-40±3	+20±2	+105±3	+20±2															
Time (mins)	3	30	3	30	3															
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: ≤ 15*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	Frequency Change: 10--55--10 Hz, Vibration Distance: 1.5 mm Direction: X, Y, Z, Duration: 2 ± 1 hours each direction	ΔC/C: ≤ ± 1% DF: ≤ 15*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 60068, IEC 61071, MIL-STD-202, IEC 60384

CHARACTERISTIC CURVE



*Specifications subject to change without notice.