

SP

High Ripple · Long life Series

Upgrade

500V LINEUP

- Endurance: 105°C · 8000~10000hours
- Recommended Applications : Applicable for Electronic Ballast
- Corresponding product to RoHS

SP
↑
SG

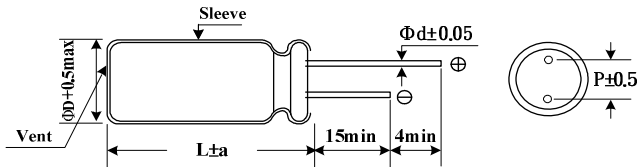
Long Life



■ SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40~+105°C	-25~+105°C
Rated Voltage Range	160 ~ 450VDC	500VDC
Rated Capacitance Range	3.3 ~ 330 µF	10~ 68 µF
Capacitance Tolerance	± 20 % at 120Hz , 20°C	± 20 % (120Hz , 20°C)
Leakage Current (20°C)	I=0.04CV + 100(µ A) ,(After rated voltage applied for 2 minutes) I : Max. leakage current (µ A), C : Nominal capacitance (µ F), V : Rated voltage (V)	
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	WV	160 200 400 450 500
	tan δ	0.20 0.20 0.24 0.24 0.24
Low Temperature Stability Impedance Ratio (MAX)	Z(120Hz)	160 200 400 450 500
	Z-25°C / Z+20°C	3 3 5 6 6
	Z-40°C / Z+20°C	6 6 6 8 -
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the max ripple current is applies for 10000 hours (8000 hours for φ 10) at 105°C.	
	Capacitance change	Within ± 20% of initial value
	D.F. (tan δ)	Not more than 200% of specified value
Shelf Life	Leakage current	initial specified value or less
	After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.	

■ Dimensions [mm]



ΦD	10	12.5	13	16	18
P	5.0	5.0	7.5	7.5	7.5
Φd	0.6	0.6	0.8	0.8	0.8
a	1.5(2.0)	2(2.5)	2.0	2.0	2.0

Notes : ():L ≥ 30mm

■ Multiplier for Ripple Current

Freq. (Hz)	120	1K	10K	100K
Coefficient	1.0	1.6	1.8	2.0

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (120Hz)	Ripple current (mA/rms105°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (120Hz)	Ripple current (mA/rms105°C) (100KHz)	
160 (200)	33	10x20	250	500	400 (450)	56	12.5x45	360	720	
	47	10x20	290	580		68	12.5x50	400	800	
		12.5x20	330	660			18x32	435	870	
	68	13x25	360	720	82	12.5x55	460	920		
		16x20	380	760	420(470)	27	10x40	200	400	
	100	13x25	485	970		33	10x45	235	470	
		16x20	560	1120		39	10x50	270	540	
	150	16x25	560	1120		47	12.5x42	310	620	
		18x20	560	1120		56	12.5x45	330	660	
		10x45	410	820		68	12.5x50	390	780	
		16x25	600	1200	82	12.5x55	450	900		
	200 (250)	16x32	650	1300	450 (500)	3.3	10x16	50	100	
		18x25	650	1300		4.7	10x20	70	140	
		180	10x50	470		940	6.8	10x20	75	150
		220	12.5x45	550		1100		12.5x20	90	180
			16x32	650		1300	10	12.5x20	155	310
		270	18x25	650		1300	22	10x40	250	500
	12.5x50		640	1280		16x25		280	560	
330	12.5x55	740	1480	18x20		275	550			
	18x36	690	1380	27		10x42	270	540		
		22	10x20	220		440	33	10*45	300	600
33	10x20	260	520	16x32		310		620		
	12.5x20	290	580	18x25		295		590		
250(300)	47	13x20	330	660	39	10x50	340	680		
		13x25	360	720		12.5x40	350	700		
	68	16x20	380	760	47	12.5x45	420	840		
		100	16x25	560		1120	16x36	440	880	
	10x45		330	660		18x32	440	880		
	120	10x50	430	860	56	12.5x50	480	960		
		150	12.5x45	510	1020	68	12.5x55	530	1060	
			16x32	640	1280	500(550)	10	12.5x20	130	260
		180	12.5x50	590	1180		15	12.5x25	165	330
		220	12.5x52	650	1300		18	16x20	170	340
		270	12.5x55	750	1500			12.5x30	195	390
	82		10x52	390	780		22	16x20	185	370
100		12.5x42	470	940	12.5x35			230	460	
120	12.5x45	480	960	16x25	230	460				
	150	12.5x50	540	1080	18x20	225	450			
180	12.5x55	650	1300	27	12.5x40	270	540			
400 (450)	6.8	10x20	75	150	33	16x25	250	500		
	10	10x20	90	180		16x30	300	600		
	22	16x20	150	300	39	18x25	295	590		
	33	16x25	260	520		16x36	355	710		
	39	10x45	260	520	47	16x40	410	820		
	47	12.5x40	310	620		18x30	385	770		
		16x32	350	700	56	18x36	455	910		
	56	10x52	340	680	68	18x40	515	1030		