

SRD

SERIES Long Life Assurance(長壽命),High Ripple Current(高紋波)

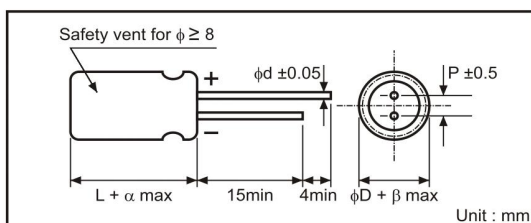
- High ripple current at high frequency, Load Life of 8000~10000 Hours at 105°C.
- For electronic ballast, Power supply input circuit.



◆ SPECIFICATIONS

Item	Performance Characteristics																				
Operating temperature range	-25 to +105℃																				
Rated Working Voltage Range	160 to 450V																				
Nominal Capacitance Range	10 to 330μF																				
Capacitance Tolerance	±20(120Hz,+20℃)																				
Leakage Current	I ≤ 0.03CV or 3(μA) after 2 minutes application of rated working voltage at +20℃ (whichever greater)																				
Dissipation Factor tan δ(120Hz,+20℃)	<table><tr><td>Working Voltage(V)</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>tan δ(max)</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.20</td><td>0.20</td><td>0.20</td></tr></table>							Working Voltage(V)	160	200	250	350	400	450	tan δ(max)	0.15	0.15	0.15	0.20	0.20	0.20
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tan δ(max)	0.15	0.15	0.15	0.20	0.20	0.20															
Characteristics Low Temperature	Impedance ratio max at 120Hz <table><tr><td>Working Voltage(V)</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Z-25℃/Z+20℃</td><td>3</td><td>3</td><td>3</td><td>6</td><td>6</td><td>6</td></tr></table>							Working Voltage(V)	160	200	250	350	400	450	Z-25℃/Z+20℃	3	3	3	6	6	6
Working Voltage(V)	160	200	250	350	400	450															
Z-25℃/Z+20℃	3	3	3	6	6	6															
High Temperature Loading	Test conditions Duration : <table><tr><td>ΦD</td><td>10</td><td>12.5~18</td></tr><tr><td>Life</td><td>8000</td><td>10000</td></tr></table> Ambient temp : +105℃ Applied vltage:Rated DC working voltage with max,ripple current.			ΦD	10	12.5~18	Life	8000	10000	Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value											
ΦD	10	12.5~18																			
Life	8000	10000																			
Shelf Life	Test conditions Duration : 1000 hours Ambient temp : +105℃ Applied vltage:(None)			Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value																	

◆ CASE SIZE TABLE



ΦD	10	12.5	16	18	20	22
P	5.0	5.0	7.5	7.5	7.5	10.0
Φd	0.6	0.6	0.8	0.8	0.8	0.8
α	(L < 20) 1.5		(L ≥ 20) 2.0			
β	(D < 20) 0.5		(D ≥ 20) 1.0			

◆ RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient

cap(μf)	freq. (Hz)	120	300	1k	10k~	100k~
< 100	0.30	0.40	0.55	0.7	0.90	1.00
≥ 100	0.35	0.45	0.60	0.75	0.90	1.00

(2) Temperature Coefficient

Temperature	-55	60	70	85	105
FACTOR	2.23	2.17	2.00	1.75	1.00

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◆ DIMENSIONS

Voltage	160V		200V		250V		350V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10							10*20	159
15					10*20	159	10*25	182
22	10*20	227	10*20	272	10*20	264	12.5*20	218
33	10*20	264	10*20	295	12.5*20	323	16*20	291
47	10*20	341	12.5*20	359	12.5*25	368	16*25	364
					16*20	450	18*20	
68	12.5*20	432	12.5*25	432	16*20	456	16*30	500
			16*20	454			18*25	455
82	12.5*25	482	16*20	500	16*25	545	18*25	500
					18*20	543		
100	12.5*25	532	16*25	548	16*30	682	18*30	545
	16*20	582	18*20	581	18*25	685		
150	16*25	698	16*25	680	18*30	818	18*40	760
	18*20	695						
220	16*30	773	18*30	906	18*40	955	22*45	970
	18*35	965	18*40	1090				
330	18*31.5	1038	18*40	1182	20*40	1196		

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Case Size ΦD X L (mm)

Voltage	400V		450V					
Cap(μF)	Size	Ripple	Size	Ripple				
10	10*20	126	12.5*25	147				
15	12.5*20	178	12.5*30	166				
22	12.5*25	225	16*25	214				
	16*20	223						
33	16*25	298	16*30	365				
			18*25	369				
47	16*30	382	18*31.5	402				
	18*25	378						
68	18*30	493	18*40	505				
82	18*36	542	18*45	580				
100	18*40	611	18*45	630				
120	20*40	680	20*45	683				
150	20*45	810	22*45	782				
180	22*40	891	22*50	892				
220	22*50	1010						

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Case Size ΦD X L (mm)