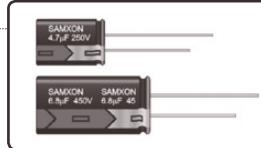


FEATURES

- High ripple current.
- For electronic ballast, power supply.



SPECIFICATIONS

Item	Performance Characteristics										
Operating Temperature Range	-40 to +105°C						-25 to +105°C				
Rated Working Voltage Range	160 to 400V						450V				
Nominal Capacitance Range	1 to 220μF										
Capacitance Tolerance	±20% at 120Hz, +20°C										
Leakage Current	$I \leq 0.02CV + 25 (\mu A)$ after 2 minutes application of rated working voltage at +20°C										
tan δ (120Hz, +20°C)	Working Voltage (V)	160	200	250	350	400	450				
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20				
Surge Voltage	Working Voltage (V)	160	200	250	350	400	450				
	Surge Voltage (V)	200	250	300	400	450	500				
Low Temperature Characteristics	Impedance ratio max. at 120Hz										
	Working Voltage (V)	160	200	250	350	400	450				
	Z-25°C / Z+20°C	3	3	3	5	5	6				
High Temperature Loading	Test time : 3,000 hours Test temperature : +105°C Test conditions : Rated DC working voltage with rated ripple current			Post test requirements at +20°C Leakage current : ≤Initial specified value Cap. change : within ±20% of the initial measured value tan δ : ≤200% of the initial specified value							
Shelf Life	At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits Leakage current : ≤Initial specified value Cap. change : within ±20% of the initial measured value tan δ : ≤200% of the initial specified value										
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)										

CASE SIZE TABLE

<p>Safety vent for $\phi \geq 6.3$</p>	<table border="1"> <thead> <tr> <th>φD</th><th>8 (L <20)</th><th>8 (L ≥20)</th><th>10</th><th>12.5</th><th>16</th><th>18</th></tr> </thead> <tbody> <tr> <td>F</td><td>3.5</td><td>3.5</td><td>5.0</td><td>5.0</td><td>7.5</td><td>7.5</td></tr> <tr> <td>φd</td><td>0.5</td><td>0.6</td><td>0.6</td><td>0.6</td><td>0.8</td><td>0.8</td></tr> <tr> <td>α</td><td colspan="3">(L <20) 1.5</td><td colspan="3">(L ≥20) 2.0</td></tr> <tr> <td>β</td><td colspan="3">(D <20) 0.5</td><td colspan="3">(D ≥20) 1.0</td></tr> </tbody> </table>	φD	8 (L <20)	8 (L ≥20)	10	12.5	16	18	F	3.5	3.5	5.0	5.0	7.5	7.5	φd	0.5	0.6	0.6	0.6	0.8	0.8	α	(L <20) 1.5			(L ≥20) 2.0			β	(D <20) 0.5			(D ≥20) 1.0		
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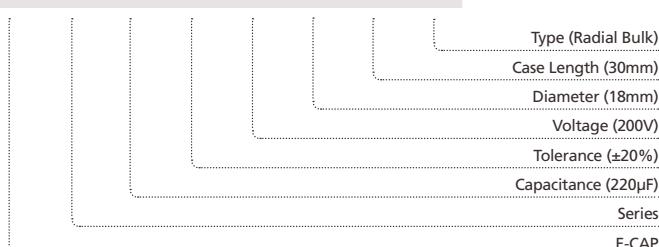
RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Coefficient Cap (μF)	120	1k	10k	100k
1~5.6	0.20	0.40	0.80	1.00
6.8~180	0.40	0.75	0.90	1.00
≥220	0.50	0.85	0.94	1.00

PART NUMBER SYSTEM (EXAMPLE : 200V 220μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	RR	227	M	2D	L	30	RR



STANDARD RATINGS

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		350V (2V)	
Cap. (μF)	Code	Case Size	Ripple Current						
4.7	475					8 x 12	160	10 x 12.5	150
5.6	565							10 x 12.5	180
6.8	685			8 x 12	204	8 x 12	215	10 x 16	280
						10 x 12.5	250		
10	106	10 x 16	320	10 x 16	320	10 x 16	320	10 x 20	350
22	226	10 x 20	500	10 x 16	453	10 x 16	453	12.5 x 20	650
				10 x 20	500	10 x 20	500		
33	336	10 x 20	650	10 x 16	589	10 x 16	640	16 x 20	900
				10 x 20	650	12.5 x 20	800		
47	476	10 x 20	750	12.5 x 20	980	12.5 x 20	980	16 x 20	1080
68	686	12.5 x 20	1180	12.5 x 25	1300	16 x 20	1300	18 x 25	1470
				16 x 20	1300				
82	826			16 x 20	1380	16 x 20	1380	18 x 25	1530
100	107	12.5 x 25	1420	16 x 20	1420	16 x 25	1530		
		16 x 20	1420						
150	157	16 x 25	1890	16 x 25	1890	18 x 25	1940		
220	227	18 x 25	2370	18 x 30	2648				

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

Case Size Ø D x L (mm)

Voltage (Code)		400V (2G)			450V (2W)		
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current		
1	105	8 x 12	60				
		8 x 12	90				
1.5	155	10 x 12.5	100				
		8 x 12	95				
1.8	185	10 x 12.5	120				
		8 x 12	95	8 x 12	105		
2.2	225	10 x 12.5	140				
		8 x 12	95				
3.3	335	10 x 12.5	150				
		8 x 12	130				
4.7	475	10 x 16	220	8 x 16	176		
		10 x 16	250	10 x 20	220		
5.6	565	10 x 16	280	10 x 20	250		
		10 x 16	317	10 x 20	228		
6.8	685	10 x 16	350	10 x 20	280		
		12.5 x 15	487	12.5 x 20	397		
10	106	10 x 20	550	12.5 x 20	450		
		12.5 x 20	760	12.5 x 25	600		
15	156	12.5 x 20	760	12.5 x 25	698		
		12.5 x 25	861	16 x 20	730		
22	226	12.5 x 20	900	12.5 x 25	891		
		12.5 x 25	1027	16 x 25	980		
33	336	12.5 x 25	1027	16 x 20	1121		
		16 x 20	1073	16 x 25	1093		
47	476	16 x 25	1180	18 x 20	1200		
		16 x 20	1180	18 x 25			
68	686	16 x 25	1374				
		16 x 30	1488				
		18 x 25	1470				

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

Case Size Ø D x L (mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.