

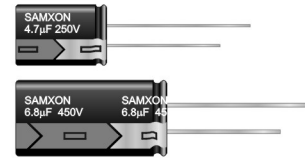
## RA Series

SAMXON®

+130°C, High Temperature(高温度), High Ripple Current(高紋波)

## FEATURES

1. High temperature, high ripple current at high frequency, load life of 1000~2000 hours at 130°C.
2. Specially designed for electronic ballast and energy-save lamp.



## SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-25 to +130°C								
Rated Working Voltage Range	160 to 450V								
Nominal Capacitance Range	1 to 220 µF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	I ≤ 0.02CV+25(µA) after 5 minutes application of rated working voltage								
Dissipation Factor 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		
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	6	6	6		
High Temperature Loading	Test conditions				Post test requirements at +20°C				
	Duration	: 2000 hours (φ ≤ 12.5: 1000 hours)			Leakage current : ≤ Initial specified value				
	Ambient temp.	: +130°C			Cap. change : within ±30% of initial measured value				
	Applied voltage	: Rated DC working voltage with rated ripple current			tan δ : ≤ 300% of initial specified value				
Shelf Life	After leaving capacitors under no load at 105°C for 1000hours, capacitors shall meet specified value for load life characteristics listed above.								
Others	JIS C - 5101 (IEC 60384)								

## CASE SIZE TABLE

	φD	8	10	12.5	16	18			
	F	3.5	5.0	5.0	7.5	7.5			
	φd	0.5	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				

## RIPPLE CURRENT MULTIPLIER

Frequency Coefficient		120	1K	10K	100K
Cap(µF)	Freq.(Hz)				
~ 180		0.40	0.75	0.90	1.00
220 ~ 560		0.50	0.85	0.94	1.00

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## DIMENSIONS

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		350V (2V)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1	105							8 x 12	51
1.5	155							10 x 12.5	56
1.8	185							10 x 16	62
2.2	225					8 x 12	64	10 x 16	70
2.8	285			8 x 12	64	10 x 12.5	72	10 x 16	76
3.3	335	8 x 12	70	8 x 12	73	10 x 12.5	80	10 x 16	84
4.7	475	10 x 12.5	76	10 x 12.5	80	10 x 16	88	10 x 20	105
5.6	565	8 x 16	81	8 x 16	86	10 x 16	88	12.5 x 20	121
6.8	685	8 x 16	88	8 x 16	94	10 x 16	96	12.5 x 20	176
8.2	825	10 x 16	96	10 x 16	100	10 x 16	104	12.5 x 20	192
10	106	10 x 16	200	10 x 16	200	10 x 16	224	12.5 x 20	224
15	156	10 x 16	336	10 x 20	336	12.5 x 20	360	12.5 x 25	240
22	226	10 x 20	400	12.5 x 20	400	12.5 x 20	480	16 x 25	252
33	336	12.5 x 20	400	12.5 x 20	480	12.5 x 25	480	16 x 30	360
47	476	12.5 x 25	528	12.5 x 25	528	16 x 25	518	16 x 35	475
68	686	16 x 25	547	16 x 25	547	16 x 30	662	18 x 35	612
100	107	16 x 25	806	16 x 35	806	18 x 30	864		
150	157	18 x 30	979	18 x 35	979				
220	227	18 x 35	1008						

Maximum Allowable Ripple Current (mA rms) at 130°C 100KHz

Case Size φD x L(mm)

Voltage (Code)		400V (2G)		450V (2W)					
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current				
1	105	10 x 12.5	58	8 x 16	64				
1.5	155	10 x 12.5	67	10 x 16	70				
1.8	185	10 x 16	72	10 x 16	74				
2.2	225	10 x 16	74	10 x 16	77				
2.8	285	10 x 16	80	10 x 16	80				
3.3	335	10 x 16	88	10 x 16	88				
4.7	475	10 x 20	104	10 x 20	104				
5.6	565	12.5 x 20	112	12.5 x 20	112				
6.8	685	12.5 x 20	176	12.5 x 20	120				
8.2	825	12.5 x 20	208	12.5 x 20	224				
10	106	12.5 x 20	224	12.5 x 20	256				
15	156	12.5 x 25	256	12.5 x 25	336				
22	226	16 x 25	309	16 x 30	403				
33	336	16 x 30	460	16 x 35	504				
47	476	18 x 35	604	18 x 35	633				
68	686	18 x 40	720						

Maximum Allowable Ripple Current (mA rms) at 130°C 100KHz

Case Size φD x L(mm)

RA

Miniature Aluminum Electrolytic Capacitors