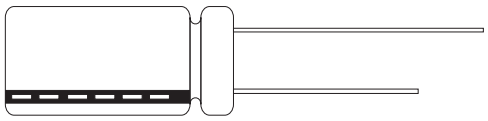
ALUMINUM ELECTROLYTIC CAPACITORS
RXF Series: 105 °C up to 10,000 hours

RoHS

FEATURES

- 105°C, 8,000 ~ 10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS Compliant



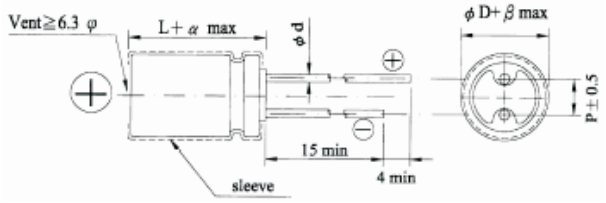
SPECIFICATIONS

Items	Performance								
Rated Voltage Range	200 ~ 400V					450V			
Operating Temperature Range	-40°C ~ +105°C								
Capacitance Tolerance	±20% (at 120Hz, 20°C)								
Leakage Current (at 20 °C)	Time	after 1 minute				after 5 minutes			
	Leakage Current	CV ≤ 1000		CV ≥ 1000		CV ≤ 1000		cv ≥ 1000	
		I = 0.1CV + 40 (μA)		I = 0.04CV + 100 (μA)		I = 0.03CV + 15 (μA)		I = 0.02cv + 25 (μA)	
	Where C = rated capacitance in μF. V = rated DC working voltage in V.								
Dissipation Factor (Tan δ at 120Hz, 20 °C)	Rated Voltage	200	250	350	400	450			
	Tan (max)	0.20	0.20	0.24	0.24	0.24			
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.								
	Rated Voltage	200	250	350	400	450			
	Impedance Ratio Z (-25) / Z (+20°C)	3	3	5	5	6			
	Impedance Ratio Z (-40) / Z (+20°C)	6	6	6	6	-			
Load Life Test	Test Time	8,000 hrs for ΦD = 10mm; 10,000 hrs for ΦD ≥ 12.5mm							
	Capacitance Change	Within ± 20% of initial value							
	Dissipation Factor	Less than 200% of specified value							
	Leakage Current	Within specified value							
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 8,000 hrs / 10,000 hrs at 105°C.								
Shelf Life Test	Capacitance Change	Within + 20% of initial value							
	Dissipation Factor	Less than 200% of specified value							
	Leakage Current	Less than 500% of specified value							
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5102).								
Ripple Current & Frequency Multipliers	Freq. (Hz) / ΦD (mm)	120	1k	10k	100k up				
	10	0.25	0.61	0.88	1.0				
	12.5 ~ 18	0.35	0.66	0.89	1.0				
Other Standards	JIS C 5101-4								

DIMENSIONS

Unit: mm

D	10	12.5	16	18
P	5.0		7.5	
d	0.6		0.8	
	1.5			
	0.5			



DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

Ripple Current: mA/rms at 105°C

V.DC / Item / μF	200V (2D)			250V (2E)			350V (2V)			400V (2G)			450V (2W)		
	ΦD x L	Ripple Current 120Hz	Ripple Current 100kHz	ΦD x L	Ripple Current 120Hz	Ripple Current 100kHz	ΦD x L	Ripple Current 120Hz	Ripple Current 100kHz	ΦD x L	Ripple Current 120Hz	Ripple Current 100kHz	ΦD x L	Ripple Current 120Hz	Ripple Current 100kHz
4.7													10 x 20	90	240
10				10 x 20	140	350				10 x 20	140	350	12.5 x 20	180	450
15										12.5 x 20	220	550	12.5 x 25	240	600
22	10 x 20	200	500	12.5 x 20	200	500	12.5 x 20	260	650	12.5 x 25	260	650	16 x 25	290	725
										16 x 20	270	680	18 x 20	280	705
33	12.5 x 20	260	650	12.5 x 25	320	800	16 x 20	360	900	16 x 25	360	900	16 x 31.5	390	975
										18 x 20	450	1,125	18 x 25	380	950
47	12.5 x 20	390	975	12.5 x 25	390	975	16 x 25	430	1,075	16 x 31.5	470	1,175	18 x 31.5	480	1,200
				16 x 20	405	1,015	18 x 20	420	1,045	18 x 25	455	1,135			
68	12.5 x 25	470	1,175	16 x 25	520	1,300	16 x 31.5	560	1,400	16 x 35.5	575	1,445	18 x 31.5	630	1,575
	16 x 20	490	1,225	18 x 20	505	1,265	18 x 25	550	1,375	18 x 31.5	585	1,465			
100	16 x 25	630	1,420	16 x 31.5	680	1,530	18 x 31.5	700	1,575	18 x 35.5	765	1,720			
	18 x 20	615	1,385	18 x 25	655	1,480									
150	16 x 31.5	840	1,890	18 x 31.5	860	1,935									
220	18 x 31.5	1050	2,365	18 x 40	1,130	2,545									
330	18 x 40	1430	3,220												

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