



Aluminum Electrolytic Capacitors

RXB

Features

- 105°C, 5,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS Compliance

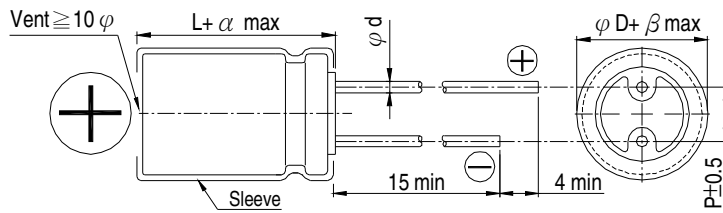


Sleeve & Marking Color: Brown & White

SPECIFICATIONS

Items	Performance																				
Category Temperature Range	160 ~ 400V	450V																			
	-40°C ~ +105°C	-25°C ~ +105°C																			
Capacitance Tolerance	±20% (at 120Hz, 20°C)																				
Leakage Current (at 20°C)	Time after 5 minutes																				
	Leakage Current	$CV \leq 1,000$ $I = 0.03CV(\mu A)$	$CV > 1,000$ $I = 0.02CV(\mu A)$																		
Where, C = rated capacitance in μF V = rated DC working voltage in V																					
Dissipation Factor (Tan δ at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </tbody> </table>							Rated Voltage	160	200	250	350	400	450	Tan δ (max)	0.20	0.20	0.20	0.24	0.24	0.24
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Tan δ (max)	0.20	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		160	200	250	350	400	450													
	Impedance	Z(-25) / Z(+20°C)	3	3	3	3	5	6													
Ratio	Z(-40) / Z(+20°C)	4	4	4	4	6	-														
Endurance	Test Time		5,000 Hrs																		
	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 5,000 hours at 105°C.																				
Shelf Life Test	Test Time		1,000 Hrs																		
	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 exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).																				
Ripple Current & Frequency Multipliers	Freq.(Hz)		120	1k	10k	100k up															
	Cap. (μF)	2.2 to 82	1.00	1.20	1.40	1.50															
		100 up	1.00	1.18	1.35	1.45															

DIAGRAM OF DIMENSIONS



Unit: mm

LEAD SPACING AND DIAMETER

ϕD	10	12.5	16	18
P	5.0		7.5	
ϕd	0.6		0.8	
α	1.5			
β	0.5			

Dimension: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

μF	V.DC Contents		160V (2C)				200V (2D)				250V (2E)				350V (2V)				400V (2G)			
	$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current					
		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz				
2.2																10x16	70	105				
3.3												10x16	72	108	10x16	82	123					
4.7												10x16	85	128	10x16	98	147					
6.8												10x16	100	150	10x16	120	180					
10	10x16	130	195	10x16	150	225	10x16	155	233	10x20	160	240	10x20	170	255							
22	10x20	210	315	10x20	230	345	12.5x20	210	315	12.5x25	305	460	12.5x25	320	480							
33	12.5x20	300	450	12.5x20	320	480	12.5x20	335	505	16x25	410	615	16x25	425	635							
47	12.5x25	340	510	12.5x25	365	548	16x25	560	840	16x31.5	510	765	16x31.5	530	795							
68	16x25	535	800	16x25	560	840	16x25	600	900	18x31.5	580	870	18x31.5	600	900							
100	16x25	610	885	16x25	645	935	16x31.5	700	1,015	18x35.5	665	965	18x40	700	1,015							
120	16x31.5	685	990	16x31.5	710	1,030	18x31.5	790	1,145	18x40	715	1,035	18x45	780	1,130							
150	16x31.5	720	1,045	16x31.5	750	1,090	18x35.5	875	1,270													
180	18x31.5	800	1,160	18x31.5	830	1,205	18x40	980	1,420													
220	18x35.5	870	1,260	18x35.5	900	1,305	18x45	1,100	1,595													
270	18x40	980	1,420	18x40	1,100	1,595																
330	18x45	1,050	1,520	18x45	1,250	1,815																

μF	V.DC Contents		450V (2W)	
	$\phi D \times L$	Ripple Current		
		120 Hz	100k Hz	
3.3	10x16	85	128	
4.7	10x16	105	158	
6.8	10x20	170	255	
10	12.5x20	280	420	
22	16x25	405	610	
33	16x31.5	490	735	
47	18x31.5	575	865	
68	18x40	665	1,000	