

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

■ MXP SERIES [Long Life! 2000 hours at 105°C]

Miniaturized 105°C Aluminum Electrolytic Capacitors with High Ripple Current capability.

■ FEATURES

- Minimum life of 2000 hours at 105°C
- High ripple current capability.
- Miniaturized by 10 to 20% in volume compared to previous SXP series.



■ SPECIFICATION TABLE

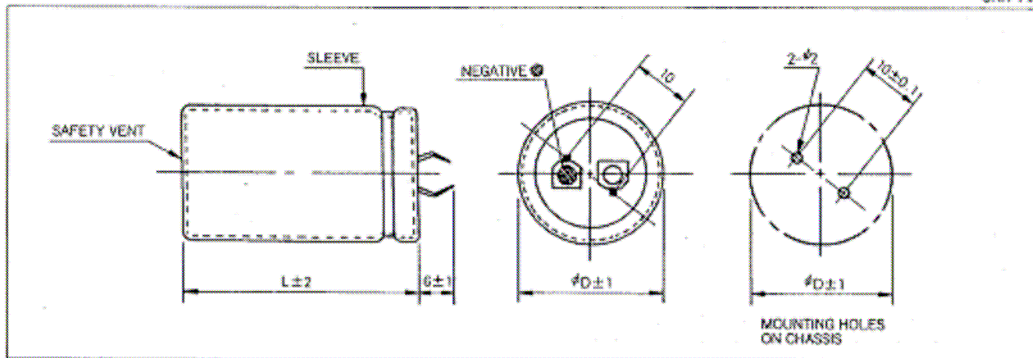
1	OPERATING TEMPERATURE RANGE	-25°C~+105°C										
2	RATED VOLTAGE RANGE	160~400V DC										
3	CAPACITANCE TOLERANCE (120Hz)	-20%~+20% (20°C)										
4	LEAKAGE CURRENT (μA max) (After applied rated voltage for 5 minutes)	I = 0.02CV or 3mA whichever is smaller I = Leakage current(μA) C = Nominal capacitance (μF) V = Rated voltage(V)										
5	DISSIPATION FACTOR (tan δ)	Shall be less than table below <table border="1"> <tr> <td rowspan="3">Cap(μF)</td> <td rowspan="3">WV</td> <td>160~250</td> <td>315~400</td> </tr> <tr> <td>GAP < 1000</td> <td>0.12</td> <td>0.15</td> </tr> <tr> <td>GAP ≥ 1000</td> <td>0.15</td> <td></td> </tr> </table> (20°C, 120Hz)	Cap(μF)	WV	160~250	315~400	GAP < 1000	0.12	0.15	GAP ≥ 1000	0.15	
Cap(μF)	WV	160~250			315~400							
		GAP < 1000			0.12	0.15						
		GAP ≥ 1000	0.15									
6	IMPEDANCE RATIO	<table border="1"> <tr> <td rowspan="2">WV</td> <td>160~250</td> <td>315~400</td> </tr> <tr> <td>Z (-25°C) / Z (+20°C)</td> <td>≤ 3</td> <td>≤ 6</td> </tr> </table> (120Hz)	WV	160~250	315~400	Z (-25°C) / Z (+20°C)	≤ 3	≤ 6				
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	Z (-25°C) / Z (+20°C)	≤ 3	≤ 6									
7	LIFE TEST AT 105°C AND RATED VOLTAGE	<table border="1"> <tr> <td>TEST HOURS</td> <td>2000 hours at +105°C</td> </tr> <tr> <td>LEAKAGE CURRENT</td> <td>Less than the value given in column 4</td> </tr> <tr> <td>CAPACITANCE CHANGE</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>DF(tan δ)</td> <td>Less than 200% of column 5</td> </tr> </table>	TEST HOURS	2000 hours at +105°C	LEAKAGE CURRENT	Less than the value given in column 4	CAPACITANCE CHANGE	Within ±20% of the initial value	DF(tan δ)	Less than 200% of column 5		
TEST HOURS	2000 hours at +105°C											
LEAKAGE CURRENT	Less than the value given in column 4											
CAPACITANCE CHANGE	Within ±20% of the initial value											
DF(tan δ)	Less than 200% of column 5											
8	OTHERS	Comply with JIS-C-5141 characteristic W										

■ PART NUMBER



Case Code	φD(m)	22	25	30	35
case code		A	B	C	D

■ DIMENSIONS



LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

■ LIST OF STANDARD PRODUCTS

WV Cap(μF) φD	160				180			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
270	22×25	0.85			22×25	0.95		
330	22×30	1.00			22×30	1.01	25×25	1.01
390	22×30	1.08	25×25	1.08	22×35	1.15	25×30	1.18
470	22×35	1.24	25×30	1.27	30×25	1.30		
560	22×40	1.41	25×30	1.37	30×25	1.40		
680	22×45	1.60	25×35	1.59	30×30	1.67	30×30	1.67
820			25×40	1.82	30×35	1.85		
1000			25×50	2.15	30×35	2.11	35×30	2.11
1200					30×40	2.41	35×35	2.48
1500					30×50	2.91	35×40	2.90
1800							35×45	3.31
2200							35×50	3.77

WV Cap(μF) φD	200				250			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
180					22×25	0.72		
220	22×25	0.78			22×30	0.85	25×25	0.85
270	22×30	0.93			22×35	0.98	25×30	1.00
330	22×35	1.07	25×25	1.01	22×40	1.13	25×30	1.10
390	22×35	1.15	25×30	1.18	22×45	1.26	25×35	1.26
470	22×40	1.31	25×35	1.36	30×25	1.30		
560	22×50	1.53	25×40	1.55	30×30	1.54		
680			25×45	1.76	30×35	1.79		
820			25×50	1.99	30×40	2.05	35×30	1.95
1000					30×45	2.35	35×35	2.30
1200					30×50	2.65	35×40	2.65
1500							35×45	3.07

WV Cap(μF) φD	315				350			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
68					22×25	0.44		
82	22×25	0.47			22×30	0.51		
100	22×30	0.55			22×30	0.56	25×25	0.56
120	22×30	0.60	25×25	0.60	22×35	0.64	25×30	0.65
150	22×35	0.70	25×30	0.72	22×40	0.74	25×30	0.73
180	22×40	0.80	25×35	0.82	30×25	0.80	30×30	0.88
220	22×45	0.91	25×35	0.91	30×30	0.95		
270			25×45	1.09	30×35	1.11	35×30	1.13
330			25×50	1.23	30×40	1.28	35×30	1.22
390					30×45	1.44	35×35	1.42
470					30×50	1.63	35×40	1.64
560							35×45	1.74
							35×50	1.96

Maximum Ripple Current Arms/120Hz 105°C

Case Size φD² × L (mm)

■ RMS RIPPLE CURRENT COEFFICIENT

1) Temperature Coefficient

Ambient Temperature(°C)	105	85	65	45&under
Temperature Coefficient	1.00	1.70	2.12	2.40

2) Frequency Coefficient

Frequency(Hz)	60	120	500	1k	10k	
Frequency coefficient	160~250WV	0.8	1.0	1.10	1.14	1.18
	315~400WV	0.8	1.0	1.05	1.10	1.15

WV Cap(μF) φD	400			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
56	22×25	0.39		
68	22×30	0.46		
82	22×35	0.53	25×25	0.50
100	22×35	0.58	25×30	0.60
120	22×40	0.66	25×35	0.69
150	22×50	0.78	25×40	0.80
180			25×45	0.90
220			25×50	1.02
270				
330			30×45	1.22
390			30×50	1.39
470				