

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

UPGRADE!

FXW2 Series

Useful of 8,000 hours at 85°C



- Conform RoHS

Features

- Capacitance is increased by around 30%, from conventional FXW series through development of etched foil technology.
- The correspondence size has been expanded to $\phi 90 \times 268L$.

FXW
P.76

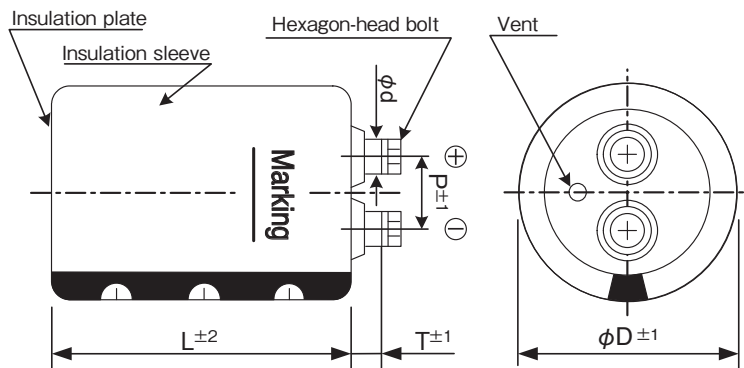
→
Small-size

FXW2

Product Specifications

Items	Specifications
Temperature range	-10°C ~ +85°C
Rated voltage	350 ~ 500V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (μA) or 7mA, whichever is smaller or less (20°C, after 5 minutes) [C = nominal capacitance (μF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard products table. (85°C, 120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 85°C for 5,000 hours: Capacitance change : Within $\pm 15\%$ of the initial value measured Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Shelf life	The following specification shall be meet when the capacitor are restored to 20°C after storage of 500 hours at 85°C with no voltage applied. Before the measurement, the capacitor shall be preconditioned by applying the voltage treatment according to Item 4.1 of JIS C 5101-4. Capacitance change : Within $\pm 15\%$ of the initial value measured Dissipation factor : 175% or less than the initial value specified Leakage current : Less than or equal to the initial value specified
Others	JIS C 5101-4

Dimensions



(unit : mm)

ϕD	P	T	ϕd	Hexagon-head bolt	Cap material
77	31.5	9.0	12.0	M6×12	Phenol resin
90	31.5	8.0	12.0	M6×12	Phenol resin

Ripple current correction coefficient

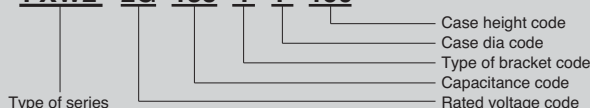
Temperature (°C)	40	60	70	85
Correction coefficient	2.2	1.9	1.6	1.0
Frequency (Hz)	120	300	1k	$\geq 10k$
Correction coefficient	1.0	1.1	1.3	1.4

Terminal permissible current is limited to 100Arms. (Even if calculated the permissible ripple current with the correction coefficient exceeds 100Arms) Please consult us when the ripple voltage exceeds 50 Vp-p.

Product code

(Example) FXW2 Series 400V 18,000 $\mu F \pm 20\%$

FXW2 2G 183 Y F 150



Refer to page 21 for product code.

Bracket

- Refer to page 22-23 for shapes and dimensions.
- Product names in the Standard Products Table correspond to the bracket for Type Y, but Type I bracket may be used (Type of bracket code = I).
- If bracket are not necessary, enter "N" for the type of bracket code.
- Bracket will be delivered separately.

Standard Products Table

Rated Voltage (V. DC)	Capacitance (μ F)	Case size ϕ D \times L (mm)	$\tan\delta$ 20°C, 120Hz	Ripple current (Arms) 85°C, 120Hz	ESR (typ.) (m Ω) 20°C, 100Hz	Z max (m Ω) 20°C, 10kHz	ESL (typ.) (nH)	Product name
350	15,000	77 \times 148	0.70	14.0	23	24	24	FXW22V153YE148
	20,000	77 \times 188	0.70	17.4	17	18	24	FXW22V203YE188
	21,000	90 \times 150	0.70	17.7	17	18	24	FXW22V213YF150
	28,000	90 \times 190	0.70	21.8	13	14	24	FXW22V283YF190
	42,000	90 \times 268	0.70	31.0	8	9	24	FXW22V423YF268
400	13,000	77 \times 148	0.70	13.0	26	27	24	FXW22G133YE148
	17,000	77 \times 188	0.70	16.0	20	21	24	FXW22G173YE188
	18,000	90 \times 150	0.70	16.4	19	20	24	FXW22G183YF150
	24,000	90 \times 190	0.70	20.2	15	16	24	FXW22G243YF190
	34,000	90 \times 268	0.70	27.8	10	11	24	FXW22G343YF268
450	10,000	77 \times 148	0.70	9.1	40	42	24	FXW22W103YE148
	14,000	77 \times 188	0.70	11.5	29	30	24	FXW22W143YE188
	15,000	90 \times 150	0.70	11.9	27	29	24	FXW22W153YF150
	20,000	90 \times 190	0.70	14.7	20	21	24	FXW22W203YF190
	30,000	90 \times 268	0.70	20.8	13	14	24	FXW22W303YF268
500	7,900	77 \times 148	0.70	8.6	45	46	24	FXW22H792YE148
	10,000	77 \times 188	0.70	10.4	36	38	24	FXW22H103YE188
	11,000	90 \times 150	0.70	10.8	33	34	24	FXW22H113YF150
	14,000	90 \times 190	0.70	13.1	26	27	24	FXW22H143YF190
	22,000	90 \times 268	0.70	18.9	16	17	24	FXW22H223YF268

Life time graph

Useful life depending on ambient temperature T_a and ripple current operating condition I versus rated ripple current at 85°C, 120Hz

