

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

UPGRADE!

FXW Series Useful of 8,000 hours at 85°C



- Conform RoHS

Features

- Capacitance has been increased by 35% compared with FX2 series by special etched foil technology and new structure of element.
- High reliability series with the warranty of 5,000 hours realized through improvement of the HCGWA series into a longer-life type.

HCGWA
P.70

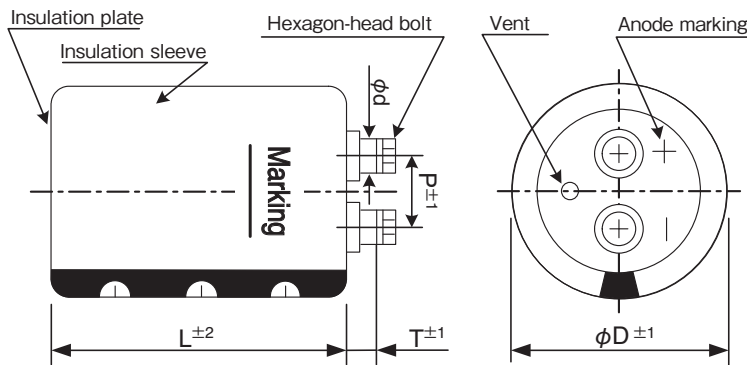
→
Long-life

FXW

Product Specifications

Items	Specifications
Temperature range	-10°C ~ +85°C
Rated voltage	350 ~ 450V.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 ±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 ±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	5.0	10.0	M5×10	Phenol resin
90	31.5	5.0	10.0	M5×10	Phenol resin
101	31.5	3.0	14.0	M6×12	Phenol resin

Ripple current correction coefficient

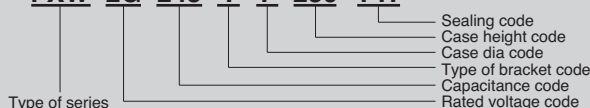
Temperature (°C)	40	60	70	85
Correction coefficient	2.2	1.9	1.6	1.00
Frequency (Hz)	120	300	1K	≥10K
Correction coefficient	1.0	1.1	1.3	1.4

Terminal permissible current is limited to 60Arms for M5, 100Arms for M6. (Even if calculated the permissible ripple current with the correction coefficient exceeds 60Arms for M5, 100Arms for M6)
Please consult us when the ripple voltage exceeds 50 Vp-p.

Product code

(Example) FXW Series 400V 24,000 µF ±20%

FXW 2G 243 Y F 236 PH



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.

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

FXW Series

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	13,000	77 \times 155	0.70	12.8	25	26	26	FXW2V133YE155PH
	17,000	77 \times 195	0.70	16.1	19	20	26	FXW2V173YE195PH
		90 \times 157	0.70	15.6	19	20	26	FXW2V173YF157PH
	24,000	90 \times 196	0.70	20.3	17	18	26	FXW2V243YF196PH
	26,000	77 \times 283	0.70	23.4	15	16	26	FXW2V263YE283PH
	30,000	101 \times 195	0.70	23.5	12	13	36	FXW2V303YG195PH
	37,000	90 \times 283	0.70	29.4	10	12	26	FXW2V373YF283PH
45,000	101 \times 283	0.70	33.6	8	10	36	FXW2V453YG283PH	
400	11,000	77 \times 155	0.70	11.8	31	32	26	FXW2G113YE155PH
	13,000	77 \times 195	0.70	14.1	26	27	26	FXW2G133YE195PH
	15,000	90 \times 157	0.70	14.7	23	24	26	FXW2G153YF157PH
	19,000	90 \times 196	0.70	18.1	21	22	26	FXW2G193YF196PH
	22,000	77 \times 283	0.70	21.5	18	19	26	FXW2G223YE283PH
	24,000	101 \times 195	0.70	21.0	17	18	36	FXW2G243YG195PH
	30,000	90 \times 283	0.70	26.5	13	14	26	FXW2G303YF283PH
38,000	101 \times 283	0.70	30.8	10	11	36	FXW2G383YG283PH	
450	9,000	77 \times 155	0.70	10.6	38	39	26	FXW2W902YE155PH
	11,000	77 \times 195	0.70	12.9	31	32	26	FXW2W113YE195PH
	12,000	90 \times 157	0.70	13.1	28	29	26	FXW2W123YF157PH
	16,000	90 \times 196	0.70	16.6	23	25	26	FXW2W163YF196PH
	19,000	77 \times 283	0.70	20.0	20	21	26	FXW2W193YE283PH
	20,000	101 \times 195	0.70	19.2	19	20	36	FXW2W203YG195PH
	27,000	90 \times 283	0.70	25.1	16	17	26	FXW2W273YF283PH
34,000	101 \times 283	0.70	29.2	13	14	36	FXW2W343YG283PH	

ALUMINUM ELECTROLYTIC CAPACITORS

Life time graph

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

