

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

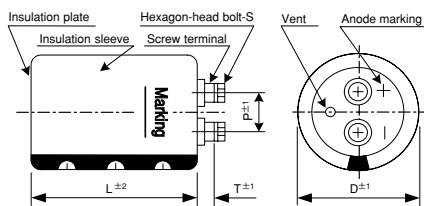
FXW Series

Useful of 8,000 hours at 85°C (Warranty of 5,000 hours at 85°C)

- Conform RoHS

Features

- Capacitance has been increased by 35% compared with FX2 model 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 type into a longer-life type.



(unit : mm)

φ D	P	S	T	Cap material
77	32.0	M5×10	5.0	Phenol
90	32.0	M5×10	5.0	Phenol
101	32.0	M6×12	3.0	PPS

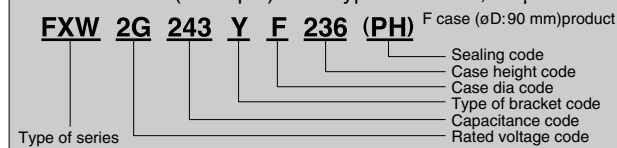
Product Specifications

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 7 mA, 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. (40°C,120Hz)
Endurance	After the rated voltage with specified ripple current is applied at 85°C for 5000 hours: Capacitance change : Within ±15% of initial value Dissipation factor : Not more than 175% of initial value specified Leakage current : Not more than initial value specified
Others	JIS C 5101-4.

Ripple current correction coefficient

Temperature (°C)	40	60	70	85	
Correction coefficient	1.0	0.75	0.62	0.37	
Frequency (Hz)	50/60	120	300	1k	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

Product code : (Example) FXW type 400 V 24,000µF±20%



Bracket

- See page 21, 22 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 (µF)	Case size φDXL(mm)	tanδ 20°C,120Hz	Ripple current 40°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Z max 20°C,10kHz (mΩ)	ESL(typ.) (nH)	Product name
350	13000	77×155	0.70	20.7	25	26	26	FXW2V133YE155PH
	17000	77×195	0.70	25.4	19	20	26	FXW2V173YE195PH
		90×157	0.70	25.4	19	20	26	FXW2V173YF157PH
	22000	77×235	0.70	32.1	17	18	26	FXW2V223YE235PH
	24000	90×196	0.70	33.8	16	18	26	FXW2V243YF196PH
		101×175	0.70	33.8	16	18	36	FXW2V243YG175
	30000	90×236	0.70	39.7	12	13	26	FXW2V303YF236PH
		101×195	0.70	39.7	12	13	36	FXW2V303YG195
38000	101×237	0.70	45.6	10	12	36	FXW2V383YG237	
400	11000	77×155	0.70	19.2	31	32	26	FXW2G113YE155PH
	13000	77×195	0.70	23.0	26	27	26	FXW2G133YE195PH
	15000	90×157	0.70	24.0	23	24	26	FXW2G153YF157PH
	16000	77×235	0.70	28.0	21	22	26	FXW2G163YE235PH
	19000	90×196	0.70	30.0	21	22	26	FXW2G193YF196PH
	20000	101×175	0.70	29.4	20	21	36	FXW2G203YG175
		90×236	0.70	35.9	17	18	26	FXW2G243YF236PH
	24000	101×195	0.70	33.8	17	18	36	FXW2G243YG195
30000	101×237	0.70	40.5	13	14	36	FXW2G303YG237	

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ALUMINUM ELECTROLYTIC CAPACITORS

Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C, 120Hz	Ripple current 40°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Z max 20°C, 10kHz (mΩ)	ESL(typ.) (nH)	Product name
450	9000	77×155	0.70	17.4	38	39	26	FXW2W902YE155PH
	11000	77×195	0.70	21.2	31	32	26	FXW2W113YE195PH
	12000	90×157	0.70	20.2	28	29	26	FXW2W123YF157PH
	14000	77×235	0.70	26.4	25	27	26	FXW2W143YE235PH
	16000	90×196	0.70	27.1	23	25	26	FXW2W163YF196PH
	17000	101×175	0.70	27.1	21	22	36	FXW2W173YG175
	20000	90×236	0.70	32.7	19	20	26	FXW2W203YF236PH
		101×195	0.70	30.7	19	20	36	FXW2W203YG195
25000	101×237	0.70	37.0	17	18	36	FXW2W253YG237	

Life time graph

Useful life depending on ambient temperature T_a and ripple current operating conditions I_r versus rated ripple current at 40°C, 120Hz

