

# SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

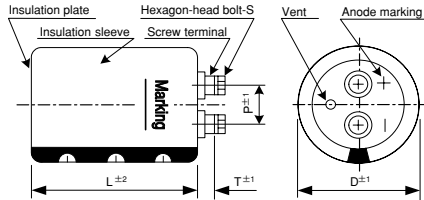
## FXA Series

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

- Conform RoHS

### Features

- Long-life and high-ripple series for inverter realized through adoption of high-reliability organic acid type electrolyte liquid and improvement of etched foil technology for high voltage and manufacturing process.



(unit : mm)

φ D	P	S	T	Cap material
51	22.0	M5×10	4.5	PPS
64	28.6	M5×10	4.5	PPS
77	32.0	M5×10	4.5	PPS
90	32.0	M5×10	4.0	PPS

### Product Specifications

Items	Specifications
Temperature range	-40°C ~ +85°C
Rated voltage	350 ~ 450V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (μA) or 5 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. (85°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	85		
Correction coefficient	1.89	1.67	1.00		
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

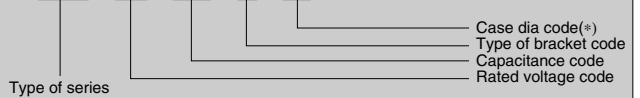
Terminal permissible currents: 60Arms for M5.

Please use this type of capacitor at a terminal current below the permissible.

Product code : (Example) FXA Series 400V 4,700μF±20%

**FXA 2G 472 Y (D)**

D case (φD : 64mm) product



(\*) Case dia code in parentheses : If two types of shape exist for the same rating, enter the case code.

### 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 øDXL(mm)	tanδ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Z max 20°C, 10kHz (mΩ)	ESL(typ.) (nH)	Product name
350	1200	51×75	0.15	5.5	85	88	21	FXA2V122Y
	1500	51×75	0.15	6.1	68	70	21	FXA2V152Y
	1800	51×96	0.15	7.4	57	59	21	FXA2V182Y
	2200	51×96	0.15	8.2	46	48	21	FXA2V222Y
	2700	51×130	0.15	10.2	38	40	21	FXA2V272Y
	3300	51×130	0.15	11.3	30	32	21	FXA2V332Y
	3900	64×115	0.15	12.8	26	28	22	FXA2V392Y
	4700	64×130	0.15	14.8	21	22	22	FXA2V472Y
	5600	64×155	0.15	17.3	18	19	22	FXA2V562YD
		77×115	0.15	16.3	18	19	24	FXA2V562YE
	6800	64×195	0.15	21.1	15	15	22	FXA2V682YD
		77×130	0.15	18.8	15	15	24	FXA2V682YE
	8200	77×155	0.15	22.1	12	15	24	FXA2V822Y
	10000	90×157	0.15	25.9	10	15	24	FXA2V103Y
	12000	90×157	0.15	28.4	8	13	24	FXA2V123Y
15000	90×196	0.15	34.6	7	10	24	FXA2V153Y	
18000	90×236	0.15	41.1	7	10	24	FXA2V183Y	

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ALUMINUM ELECTROLYTIC CAPACITORS

Rated Voltage (V. DC)	Capacitance (μF)	Case size øDXL(mm)	tanδ 20°C,120Hz	Ripple current 85°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Z max 20°C,10kHz (mΩ)	ESL(typ.) (nH)	Product name
400	1000	51×75	0.15	5.0	102	105	21	FXA2G102Y
	1200	51×75	0.15	5.5	85	88	21	FXA2G122Y
	1500	51×96	0.15	6.7	68	70	21	FXA2G152Y
	1800	51×96	0.15	7.4	57	58	21	FXA2G182Y
	2200	51×130	0.15	9.2	46	48	21	FXA2G222Y
	2700	64×96	0.15	9.9	38	40	22	FXA2G272Y
	3300	64×115	0.15	11.8	30	32	22	FXA2G332Y
	3900	64×130	0.15	13.5	26	28	22	FXA2G392Y
	4700	64×155	0.15	15.9	21	22	22	FXA2G472YD
		77×115	0.15	14.9	21	22	24	FXA2G472YE
	5600	64×195	0.15	19.1	18	19	22	FXA2G562YD
		77×130	0.15	17.0	18	19	24	FXA2G562YE
	6800	77×155	0.15	20.2	15	15	24	FXA2G682Y
	8200	90×157	0.15	23.5	12	15	24	FXA2G822Y
10000	90×157	0.15	25.9	10	15	24	FXA2G103Y	
12000	90×196	0.15	31.0	8	13	24	FXA2G123Y	
15000	90×236	0.15	37.5	8	10	24	FXA2G153Y	
450	1000	51×75	0.15	5.0	102	105	21	FXA2W102Y
	1200	51×96	0.15	6.0	85	88	21	FXA2W122Y
	1500	51×115	0.15	7.2	68	70	21	FXA2W152Y
	1800	51×130	0.15	8.3	56	58	21	FXA2W182Y
	2200	64×96	0.15	9.0	46	48	22	FXA2W222Y
	2700	64×115	0.15	10.7	38	40	22	FXA2W272Y
	3300	64×130	0.15	12.4	30	35	22	FXA2W332Y
	3900	64×155	0.15	14.5	27	32	22	FXA2W392YD
		77×115	0.15	13.6	27	32	24	FXA2W392YE
	4700	64×195	0.15	17.5	21	21	22	FXA2W472YD
		77×130	0.15	15.6	21	21	24	FXA2W472YE
	5600	77×155	0.15	18.3	20	20	24	FXA2W562Y
	6800	90×157	0.15	21.4	18	18	24	FXA2W682Y
	8200	90×157	0.15	23.5	15	15	24	FXA2W822Y
10000	90×196	0.15	28.3	12	15	24	FXA2W103Y	
12000	90×236	0.15	33.6	9	12	24	FXA2W123Y	

## Life time graph

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

