

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

New

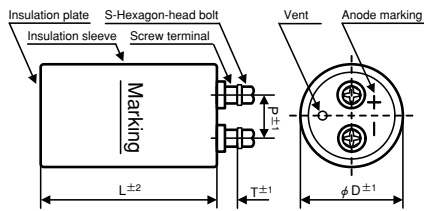
FX3 Series

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

• Conform RoHS

Features

- FX3 series is the product developed for the purpose of the miniaturization as a capacitor for primary side filters of an inverter, DC servo, and a chopper control circuit.



(unit : mm)

φ D	P	S	T	Cap material
51	22	M5×10	5.5	Phenol
64	28.6	M5×10	5.5	Phenol
77	32	M5×10	5.0	Phenol

Product Specifications

Items	Specifications
Temperature range	-40°C ~ +85°C
Rated voltage	400, 450V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (μA) or 5mA, whichever is smaller or less [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)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 5000 hours: Capacitance tolerance: ±15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
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 current : 60Arms for M5

Product code : (Example) FX3 type 400V 8,200μF±20%
E case (φD : 77mm) product

FX3 2G 822 Y E 130

Type of series: FX3
Case code: 2G
Type of bracket code: 822
Capacitance code: Y
Rated voltage code: E 130

The L dimension (mm)
Case code
Type of bracket code
Capacitance code
Rated voltage code

Bracket

- See page 51 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 Code (Surge Voltage) (V, DC)	Capacitance (μF)	Case size φDXL(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 2G (450)	2200	51×96	0.20	8.4	46	48	21	FX32G222YC096
	2700	51×115	0.20	10.0	38	40	21	FX32G272YC115
	3300	51×130	0.20	11.6	30	32	21	FX32G332YC130
	3900	64×96	0.20	12.3	26	28	22	FX32G392YD096
	4700	64×115	0.20	14.5	21	22	22	FX32G472YD115
	5600	64×130	0.20	16.5	18	19	22	FX32G562YD130
	6800	77×115	0.20	17.5	15	15	24	FX32G682YE115
8200	77×130	0.20	20.1	12	15	24	FX32G822YE130	
450 2W (500)	1800	51×96	0.20	7.2	71	73	21	FX32W182YC096
	2200	51×115	0.20	8.6	58	60	21	FX32W222YC115
	3300	51×155	0.20	11.9	39	41	21	FX32W332YC155
	4700	64×155	0.20	15.5	27	29	22	FX32W472YD155
	5600	64×171	0.20	15.9	23	25	22	FX32W562YD171
	6800	64×195	0.20	18.4	19	21	22	FX32W682YD195
	8200	77×171	0.20	22.5	16	18	24	FX32W822YE171

Life time graph

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

