

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

FX2 Series

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

Features

- Developed specially for the demand of higher voltage with compact size.
- The size is reduced by around 14% of conventional FXA type through development of electrolyte liquid.
- 500V and 550V added in the series.



Product Specifications

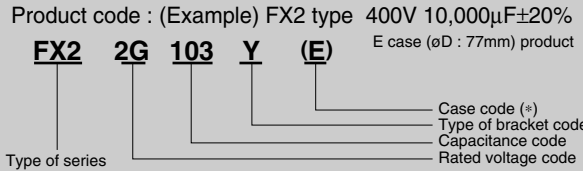
Items	Specifications
Temperature range	-40°C ~ +85°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	400 ~ 550V.DC
Leakage current	0.01CV (μA) or 5mA, whichever is smaller or less [C = nominal capacitance (μF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard 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

In accordance with the permissible current, ripple current should be under 60Arms at M5 terminal (case code A-F) under 120 Arms at M8 terminal (case code G).

For case code G (ø100) items, M6 terminal is also available, and ripple current should be under 100Arms.



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

Attachment of legs

- See page 49 for shapes and dimensions.
- Product names in the Standard Units Rating Table correspond to the attachment legs for Type Y (Type I for ø36 only), but Type I attachment legs may be used (Shape Code = I).
- If attachment legs are not necessary, enter "N" for the attachment leg shape code.
- Attachment legs will be delivered separately.

Standard value and case size

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
400V(2G)	2200	51·115	C12R	0.15	8.8	FX22G222Y
	2700	51·130	C13R	0.15	10.2	FX22G272Y
	3300	64·96	D10R	0.15	11.0	FX22G332Y
	3900	64·115	D12R	0.15	12.8	FX22G392Y
	4700	64·130	D13R	0.15	14.8	FX22G472Y
	5600	77·115	E12R	0.15	16.2	FX22G562Y
	6800	77·130	E13R	0.15	18.7	FX22G682Y
	8200	77·155	E16R	0.15	22.0	FX22G822Y
	10000	77·195	E20R	0.15	26.7	FX22G103YE
		90·131	F13R	0.15	24.2	FX22G103YF
	12000	90·157	F16R	0.15	28.5	FX22G123Y
	15000	90·196	F20R	0.15	34.8	FX22G153Y
	18000	90·236	F24R	0.15	41.2	FX22G183Y
	22000	101·237	G24R	0.15	47.0	FX22G223Y

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
500V(2H)	1200	51·115	C12R	0.20	6.2	FX22H122YC
		64·96	D10R	0.20	6.3	FX22H122YD
	1500	51·130	C13R	0.20	7.3	FX22H152YC
		64·96	D10R	0.20	7.1	FX22H152YD
	1800	64·115	D12R	0.20	8.3	FX22H182Y
	2200	64·130	D13R	0.20	9.6	FX22H222Y
	2700	77·115	E12R	0.20	10.7	FX22H272Y
	3300	77·130	E13R	0.20	12.4	FX22H332Y
	3900	77·155	E16R	0.20	14.4	FX22H392Y
	4700	77·171	E17R	0.20	16.5	FX22H472YE
		90·131	F13R	0.20	15.8	FX22H472YF
	5600	77·195	E20R	0.20	19.0	FX22H562YE
		90·157	F16R	0.20	18.6	FX22H562YF
	6800	90·171	F17R	0.20	21.2	FX22H682Y
	8200	90·196	F20R	0.20	24.5	FX22H822YF
		101·175	G18R	0.20	24.2	FX22H822YG
	10000	90·236	F24R	0.20	29.3	FX22H103YF
		101·195	G20R	0.20	27.9	FX22H103YG
	12000	101·237	G24R	0.20	33.1	FX22H123Y

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
450V(2W)	1800	51·115	C12R	0.15	7.6	FX22W182Y
	2200	51·130	C13R	0.15	8.8	FX22W222Y
	2700	64·96	D10R	0.15	9.5	FX22W272Y
	3300	64·115	D12R	0.15	11.2	FX22W332Y
	3900	64·130	D13R	0.15	12.8	FX22W392Y
	4700	77·115	E12R	0.15	14.1	FX22W472Y
	5600	77·130	E13R	0.15	16.2	FX22W562Y
	6800	77·155	E16R	0.15	19.1	FX22W682Y
	8200	77·195	E20R	0.15	23.0	FX22W822YE
		90·131	F13R	0.15	21.0	FX22W822YF
	10000	90·171	F17R	0.15	25.7	FX22W103Y
	12000	90·196	F20R	0.15	29.7	FX22W123YF
		101·175	G18R	0.15	29.3	FX22W123YG
	15000	90·236	F24R	0.15	35.9	FX22W153YF
		101·195	G20R	0.15	34.2	FX22W153YG
	18000	101·237	G24R	0.15	40.5	FX22W183Y

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 85°C,120Hz	Product name
550V(2L)	1000	51·130	C13R	0.20	5.9	FX22L102Y
	1200	64·115	D12R	0.20	6.8	FX22L122Y
	1500	64·130	D13R	0.20	8.0	FX22L152Y
	1800	77·115	E12R	0.20	8.7	FX22L182Y
	2200	77·130	E13R	0.20	10.1	FX22L222Y
	2700	77·155	E16R	0.20	12.0	FX22L272Y
	3300	77·155	E16R	0.20	13.3	FX22L332Y
	3900	90·157	F16R	0.20	15.5	FX22L392Y
	4700	90·171	F17R	0.20	17.6	FX22L472Y
	5600	90·196	F20R	0.20	20.3	FX22L562Y
	6800	90·236	F24R	0.20	24.1	FX22L682Y
	8200	101·237	G24R	0.20	27.3	FX22L822Y