

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

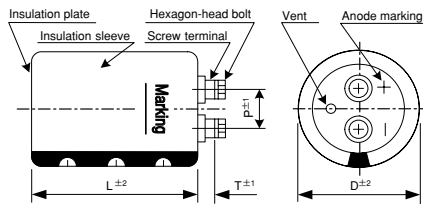
New

Option Service: Charge-Discharge

- Conform RoHS

Features

- Suited to high frequency Charge-Discharge for AC servomotor, general inverter.
- To our regular series, we add Charge-Discharge function. The size / performance is as it is.



(unit : mm)

Type	φ D	P	S	T	Cap material
FXA	51	22.0	M5×10	4.5	PPS
HXA	64	28.6	M5×10	4.5	
GXA	77	32.0	M5×10	4.5	
FX2 GX2	90	32.0	M5×10	4.0	Phenol resin
	51	22.0	M5×10	5.5	
	64	28.6	M5×10	5.5	
	77	32.0	M5×10	5.0	
	90	32.0	M5×10	5.0	
FXR	101	41.5	M8×16	11.0	PPS
	64	28.6	M5×10	4.5	
	77	32.0	M6×12	3.0	
	90	32.0	M6×12	3.0	

Standard Products Table

Please refer to the Reference page of Charge-Discharge available series.

Ripple current correction coefficient

Please refer to the Reference page of Charge-Discharge available series.

Charge-Discharge option available series

Type of series	FXA	FX2	FXR	HXA	GXA	GX2	GXR
Temperature range	-40°C~85°C				-40°C~105°C		
Warranty life	5,000h	5,000h	5,000h	20,000h	5,000h	5,000h	5,000h
Reference page	P.83	P.81	P.65	P.94	P.92	P.90	P.69

Product Specifications

Items	Specifications
Rated voltage	400, 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	Please refer to the Reference page of Charge-Discharge available series.
Endurance of high temperature load behavior	After an application of specified ripple current on top of rated voltage for Warranty life at the maximum operating temperature, following requirements must be met. 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
Endurance of charge-discharge behavior	After an application of charge-discharge voltage for 20 million times (charge-discharge (ΔV)=150V, cycle 3 or 2 Hz (*1)) at 40°C, following requirements must be met. Capacitance tolerance : ±15% or less of the initial value Dissipation factor : 175% or less of specified initial value Leakage current : Specified initial value or less
Reference	When it is used ripple current load together with charge-discharge, please ask us it, because the confirmation of temperature rise (An increase in core temperature by internal heating due to ripple current temperature) is necessary. If it is not used together, we recommend measuring the core temperature of the capacitor with a thermocouple. (We can manufacture samples with inserted thermocouples according to customer requests.)
Others	JIS C 5101-4.

*1 Charge-Discharge frequency:

The highest Charge-Discharge frequency of following 9 products are 2 Hz, all the other products 3 Hz.

Type of series	Rated Voltage Code (V. DC)	Capacitance (μF)	Case size φ DXL (mm)	Product name	The highest Charge-Discharge frequency (Hz)
FXA	400	15000	90×236	FXA2G153YDH	2
FX2	400	10000	90×131	FX22G103YFDH	
		12000	90×157	FX22G123YDH	
		15000	90×196	FX22G153YDH	
		18000	90×236	FX22G183YDH	
		22000	101×237	FX22G223YDH	
450	15000	90×236	FX22W153YFDH		
		101×195	FX22W153YGDH		
		18000	101×237	FX22W183YDH	
All other products					3

Product code : (Example) FX2 type 400 V 10,000μF±20%

FX2 2G 103 Y (E) DH

E case (φD: 77 mm) product



To figure this option, add a postscript DH at the end of the product name. Please refer to the Reference page of Charge-Discharge available series.

About the shape and dimensions of bracket, see page 53.