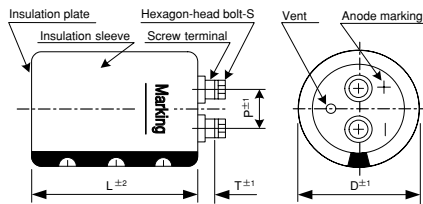


Option Service: Charge-Discharge

- 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 HXA GXA	51	22.0	M5×10	4.5	PPS
	64	28.6	M5×10	4.5	
	77	32.0	M5×10	4.5	
FX2 GX2	51	22.0	M5×10	5.5	Phenol resin
	64	28.6	M5×10	5.5	
	77	32.0	M5×10	5.0	
	90	32.0	M5×10	5.0	
FXR GXR	64	28.6	M5×10	4.5	PPS
	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.50	P.48	P.33	P.61	P.59	P.57	P.37

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 (**)) 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.

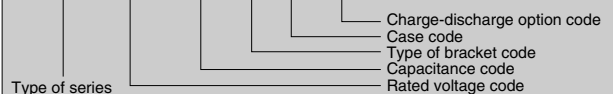
*1 Charge-Discharge frequency:

The highest Charge-Discharge frequency is 2Hz as for the products of 10,000 μF, all other products are 3Hz.

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.