

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

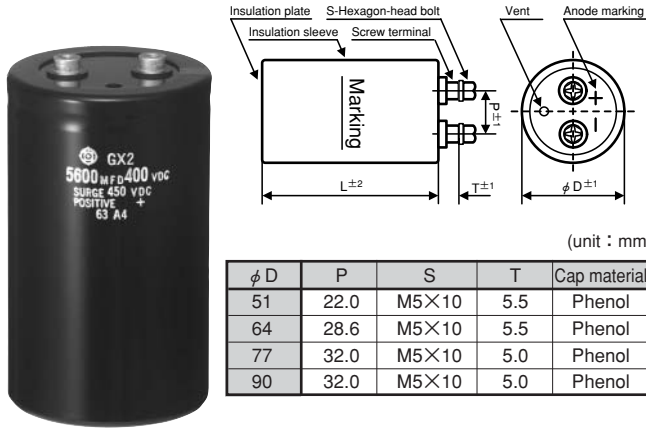
GX2 Series

Useful of 8,000 hours at 105°C (Warranty of 5,000 hours at 105°C)

• Conform RoHS

Features

- Developed specially for the demand of higher voltage like Active Filters.
- Warranty life of 5000hours at 105°C with 500V through development of electrolyte liquid and forming technology.



Product Specifications

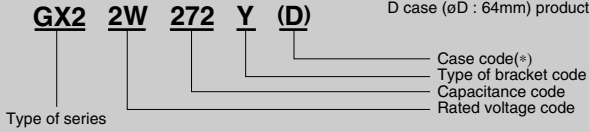
Items	Specifications
Temperature range	-40°C ~ +105°C
Rated voltage	400 ~ 500V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (μA) or 5mA, whichever is smaller or less [C = nominal capacitance (μF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C, 120Hz)
Permissible ripple current	As specified in the standard products table. (105°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 105°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	105	
Correction coefficient	2.44	2.16	2.00	1.00	
Frequency (Hz)	50/60	120	300	1k	≥10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

Ripple current should be under 60 Arms at M5 terminal in accordance with from the permissible current.

Product code : (Example) GX2 type 450V 2,700μF±20%
D case (φD : 64mm) product



*() Case code in parentheses : If two types of shape exist for the same rating, enter the case 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 105°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Z max 20°C, 10kHz (mΩ)	ESL(typ.) (nH)	Product name
400 2G (450)	1200	51×75	0.15	4.2	65	70	21	GX22G122Y
	1500	51×96	0.15	5.2	53	55	21	GX22G152Y
	1800	51×115	0.15	6.1	44	44	21	GX22G182Y
	2200	51×130	0.15	7.1	42	45	21	GX22G222Y
	2700	64×96	0.15	7.6	38	40	22	GX22G272Y
	3300	64×115	0.15	9.0	30	35	22	GX22G332Y
			0.15	10.3	27	32	22	GX22G392Y
	4700	64×155	0.15	12.2	22	23	22	GX22G472YD
			0.15	11.4	22	23	24	GX22G472YE
	5600	64×170	0.15	13.8	20	21	22	GX22G562YD
			0.15	13.1	20	23	24	GX22G562YE
	6800	77×155	0.15	15.4	18	18	24	GX22G682YE
			0.15	15.4	18	18	24	GX22G682YF
8200	77×195	0.15	18.6	15	17	24	GX22G822Y	
10000	90×171	0.15	20.5	12	15	24	GX22G103Y	
450 2W (500)	1000	51×75	0.15	3.9	70	75	21	GX22W102Y
	1200	51×96	0.15	4.6	65	70	21	GX22W122Y
	1500	51×115	0.15	5.5	53	55	21	GX22W152Y
	1800	51×130	0.15	6.4	44	45	21	GX22W182Y
	2200	64×96	0.15	6.9	42	42	22	GX22W222Y
			0.15	8.2	42	42	22	GX22W272YD
	2700	64×115	0.15	8.2	42	42	22	GX22W272YD
			0.15	8.1	42	42	24	GX22W272YE
	3300	77×115	0.15	9.6	35	40	24	GX22W332Y
	3900	64×170	0.15	11.6	27	32	22	GX22W392Y
	4700	64×195	0.15	13.4	24	27	22	GX22W472Y
	5600	77×171	0.15	14.6	24	23	24	GX22W562Y
	6800	90×157	0.15	16.5	20	20	24	GX22W682Y
8200	90×171	0.15	18.7	18	18	24	GX22W822Y	

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Rated Voltage Code (Surge Voltage) (V _{DC})	Capacitance (μF)	Case size φDXL(mm)	tanδ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Z max 20°C, 10kHz (mΩ)	ESL(typ.) (nH)	Product name
500 2H (550)	1000	51×130	0.20	4.5	112	120	21	GX22H102Y
	1200	64×115	0.20	5.2	93	100	22	GX22H122Y
	1500	64×130	0.20	6.1	74	80	22	GX22H152Y
	1800	77×115	0.20	6.7	62	50	24	GX22H182Y
	2200	77×130	0.20	7.8	53	50	24	GX22H222Y
	2700	77×155	0.20	9.3	40	35	24	GX22H272Y
	3300	77×155	0.20	10.2	38	32	24	GX22H332Y
	3900	90×157	0.20	11.9	30	27	24	GX22H392Y
	4700	90×171	0.20	13.5	25	20	24	GX22H472Y
5600	90×196	0.20	15.5	20	17	24	GX22H562Y	
6800	90×236	0.20	18.5	17	17	24	GX22H682Y	

Life time graph

Useful life depending on ambient temperature T_a and ripple current operating conditions I_r versus rated ripple current at 105°C, 120Hz

