

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

GXA Series

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

- Conform RoHS

Features

- Leading product with heat resistance and long life at 105°C to meet the requirement for high temperature and long life in the inverter circuit.



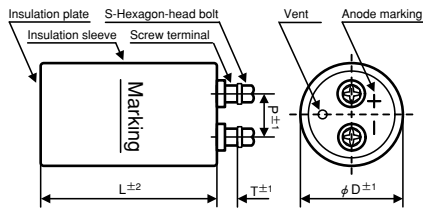
Product Specifications

Items	Specifications
Temperature range	-40°C ~ +105°C
Rated voltage	350 ~ 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. (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.



(unit : mm)

φ D	P	S	T	Cap material
51	22.0	M5×10	4.5	PPS
64	28.6	M5×10	4.5	PPS
77	32.0	M5×10	4.5	PPS
90	32.0	M5×10	4.0	PPS

Product code : (Example) GXA type 350V 4,700μF±20%

GXA 2V 472 Y (E)

E case (φD : 77mm) 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
350 2V (400)	1000	51×75	0.15	3.9	100	103	21	GXA2V102Y
	1200	51×75	0.15	4.2	84	87	21	GXA2V122Y
	1500	51×96	0.15	5.2	67	69	21	GXA2V152Y
	1800	51×96	0.15	5.7	55	57	21	GXA2V182Y
	2200	51×130	0.15	7.1	45	47	21	GXA2V222Y
	2700	64×96	0.15	7.7	37	39	22	GXA2V272Y
	3300	64×115	0.15	9.1	29	31	22	GXA2V332Y
	3900	64×130	0.15	10.4	25	27	22	GXA2V392Y
	4700	64×155	0.15	12.2	20	21	22	GXA2V472YD
		77×115	0.15	11.5	20	21	24	GXA2V472YE
	5600	64×195	0.15	14.6	17	20	22	GXA2V562YD
		77×130	0.15	13.1	17	20	24	GXA2V562YE
	6800	77×155	0.15	15.5	14	18	24	GXA2V682Y
	8200	90×157	0.15	18.1	12	15	24	GXA2V822Y
	10000	90×157	0.15	19.9	10	15	24	GXA2V103Y
12000	90×196	0.15	23.8	8	13	24	GXA2V123Y	
15000	90×236	0.15	28.8	7	10	24	GXA2V153Y	

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Rated Voltage Code (Surge Voltage) (V _{DC})	Capacitance (μF)	Case size øDXL(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)	1000	51×75	0.15	3.9	102	105	21	GXA2G102Y
	1200	51×96	0.15	4.6	85	88	21	GXA2G122Y
	1500	51×115	0.15	5.6	68	70	21	GXA2G152Y
	1800	51×130	0.15	6.4	57	58	21	GXA2G182Y
	2200	64×96	0.15	6.9	46	48	22	GXA2G222Y
	2700	64×115	0.15	8.2	38	40	22	GXA2G272Y
	3300	64×130	0.15	9.5	30	32	22	GXA2G332Y
	3900	64×155	0.15	11.1	27	28	22	GXA2G392YD
		77×115	0.15	10.4	27	28	24	GXA2G392YE
	4700	64×195	0.15	13.4	21	22	22	GXA2G472YD
		77×130	0.15	12.0	21	22	24	GXA2G472YE
	5600	64×195	0.15	14.6	20	20	22	GXA2G562YD
		77×155	0.15	14.0	20	20	24	GXA2G562YE
	6800	90×157	0.15	16.5	18	18	24	GXA2G682Y
8200	90×157	0.15	18.1	15	17	24	GXA2G822Y	
10000	90×196	0.15	21.7	12	15	24	GXA2G103Y	
12000	90×236	0.15	25.8	10	12	24	GXA2G123Y	
450 2W (500)	1000	51×96	0.15	4.2	102	105	21	GXA2W102Y
	1200	51×115	0.15	5.0	85	88	21	GXA2W122Y
	1500	51×130	0.15	5.9	68	70	21	GXA2W152Y
	1800	64×96	0.15	6.3	57	58	22	GXA2W182Y
	2200	64×115	0.15	7.4	46	48	22	GXA2W222Y
	2700	64×130	0.15	8.6	40	42	22	GXA2W272YD
		77×115	0.15	8.7	40	42	24	GXA2W272YE
	3300	64×155	0.15	10.2	30	35	22	GXA2W332YD
		77×130	0.15	10.1	30	35	24	GXA2W332YE
	3900	64×195	0.15	12.3	27	32	22	GXA2W392Y
	4700	77×155	0.15	12.9	24	27	24	GXA2W472Y
	5600	77×195	0.15	15.4	22	23	24	GXA2W562YE
		90×157	0.15	14.9	22	23	24	GXA2W562YF
	6800	90×196	0.15	18.0	20	20	24	GXA2W682Y
8200	90×196	0.15	19.8	18	18	24	GXA2W822Y	
10000	90×236	0.15	23.6	15	15	24	GXA2W103Y	

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

