

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

GXR Series

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

• Conform RoHS

Features

- Ripple Current increased by 37% (without wind) or 50% (with 0.5m/s wind) by new heat radiation constructions in case of ø90



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.

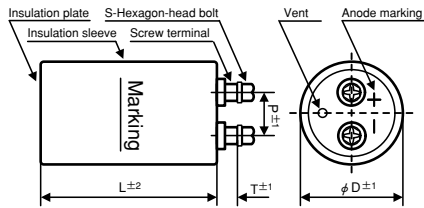
Ripple current correction coefficient

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
Forced wind (m/s)	< 0.5	0.5 ≤			
Correction coefficient	1.0	1.1			

Terminal shapes: M5 for ø64; M6 for ø77, 90.

Terminal permissible currents: 60Arms for M5; 100Arms for M6.

Please use this type of capacitor at a terminal current below the permissible.



(unit : mm)

φ D	P	S	T	Cap material
64	28.6	M5×10	5.0	PPS
77	32.0	M6×12	3.0	PPS
90	32.0	M6×12	3.0	PPS

Product code : (Example) GXR type 400 V 5,600μF±20%

GXR	2G	562	Y	(E)	
Type of series					Case code (≠)
					Type of bracket code
					Capacitance code
					Rated voltage code

*() 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 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	
350 2V (400)	2700	64×100	0.15	8.9	35	37	22	GXR2V272Y	
	3300	64×115	0.15	10.3	29	31	22	GXR2V332Y	
	3900	64×131	0.15	11.8	25	27	22	GXR2V392Y	
	4700	4700	64×155	0.15	13.9	20	21	22	GXR2V472YD
			77×121	0.15	15.2	20	21	23	GXR2V472YE
			90×106	0.15	15.7	20	21	23	GXR2V472YF
	5600	5600	77×137	0.15	17.4	17	18	23	GXR2V562YE
			90×121	0.15	18.2	17	18	23	GXR2V562YF
	6800	6800	77×161	0.15	20.5	14	15	23	GXR2V682YE
			90×137	0.15	21.0	14	15	23	GXR2V682YF
			90×161	0.15	24.8	12	12	23	GXR2V822Y
	10000	10000	90×161	0.15	27.4	9	9	23	GXR2V103Y

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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)	2200	64×100	0.15	8.0	46	48	22	GXR2G222Y
	2700	64×115	0.15	9.3	38	40	22	GXR2G272Y
	3300	64×131	0.15	10.9	31	33	22	GXR2G332Y
	3900	64×155	0.15	12.7	26	27	22	GXR2G392YD
		77×121	0.15	13.8	26	27	23	GXR2G392YE
		90×106	0.15	14.3	26	27	23	GXR2G392YF
	4700	77×137	0.15	15.9	21	22	23	GXR2G472YE
		90×121	0.15	16.7	21	22	23	GXR2G472YF
	5600	77×161	0.15	18.6	18	19	23	GXR2G562YE
		90×137	0.15	19.1	18	19	23	GXR2G562YF
	6800	90×161	0.15	22.6	15	16	23	GXR2G682Y
8200	90×161	0.15	24.8	12	12	23	GXR2G822Y	
10000	90×178	0.15	28.3	10	10	23	GXR2G103Y	
450 2W (500)	1800	64×100	0.15	7.2	57	60	22	GXR2W182Y
	2200	64×131	0.15	8.9	46	48	22	GXR2W222Y
	2700	64×155	0.15	10.5	38	40	22	GXR2W272YD
		77×121	0.15	11.5	38	40	23	GXR2W272YE
	3300	77×137	0.15	13.4	31	23	23	GXR2W332YE
		90×106	0.15	13.1	31	23	23	GXR2W332YF
	3900	77×161	0.15	15.5	26	28	23	GXR2W392YE
		90×121	0.15	15.2	26	28	23	GXR2W392YF
	4700	77×161	0.15	17.0	21	22	23	GXR2W472YE
		90×137	0.15	17.5	21	22	23	GXR2W472YF
	5600	90×161	0.15	20.5	18	19	23	GXR2W562Y
	6800	90×178	0.15	23.3	15	15	23	GXR2W682Y

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

