

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

New

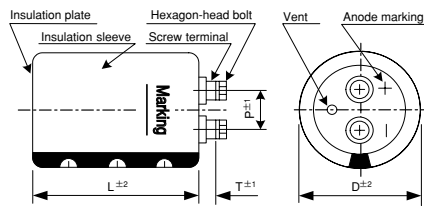
GXR3 Series

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

• Conform RoHS

Features

- GXR3 series has smaller case size (ave.10%) and higher ripple current (ave.17%) compared with GX2 series. These features are accomplished by new heat radiation structure and low ESR material.



(unit : mm)

φ D	P	S	T	Cap material
64	28.6	M5×10	4.0	PPS
77	32.0	M6×12	4.5	PPS
90	32.0	M6×12	3.0	PPS

Product Specifications

Items	Specifications
Temperature range	-40°C ~ +105°C
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	As specified in the standard products table. (105°C,120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°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.

Product code : (Example) GXR3 type 400 V 10,000μF±20%

GXR3 2G 103 Y F 154

F case (ø: 90 mm) product



*() Case code in parentheses : If two types of shape exist for the same rating, enter the case code.

Bracket

- See page 55 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
400 2G (450)	3300	64×99	0.20	11.1	31	33	22	GXR32G332YD099
	3900	64×112	0.20	12.0	26	27	22	GXR32G392YD112
	4700	64×128	0.20	13.9	21	22	22	GXR32G472YD128
		77×100	0.20	14.0	21	22	23	GXR32G472YE100
	5600	64×152	0.20	15.7	18	19	22	GXR32G562YD152
		77×113	0.20	15.4	18	19	23	GXR32G562YE113
	6800	77×129	0.20	17.7	15	16	23	GXR32G682YE129
	8200	77×170	0.20	21.1	12	12	23	GXR32G822YE170
	10000	90×154	0.20	23.8	10	10	23	GXR32G103YF154
	12000	90×171	0.20	27.1	8	10	23	GXR32G123YF171
450 2W (500)	15000	90×194	0.20	31.1	8	10	23	GXR32G153YF194
	18000	90×234	0.20	36.8	6	9	23	GXR32G183YF234
	2700	64×112	0.20	9.8	38	40	22	GXR32W272YD112
	3300	77×100	0.20	11.7	32	33	23	GXR32W332YE100
	3900	64×152	0.20	13.0	26	28	22	GXR32W392YD152
	4700	64×169	0.20	14.9	21	22	22	GXR32W472YD169
	5600	77×170	0.20	17.2	18	19	23	GXR32W562YE170
	6800	77×193	0.20	19.4	15	16	23	GXR32W682YE193
	8200	90×154	0.20	21.1	12	12	23	GXR32W822YF154
	10000	90×171	0.20	24.3	10	10	23	GXR32W103YF171
12000	90×194	0.20	27.3	8	10	23	GXR32W123YF194	
15000	90×234	0.20	33.0	8	10	23	GXR32W153YF234	

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

