

LGX Series

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

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.



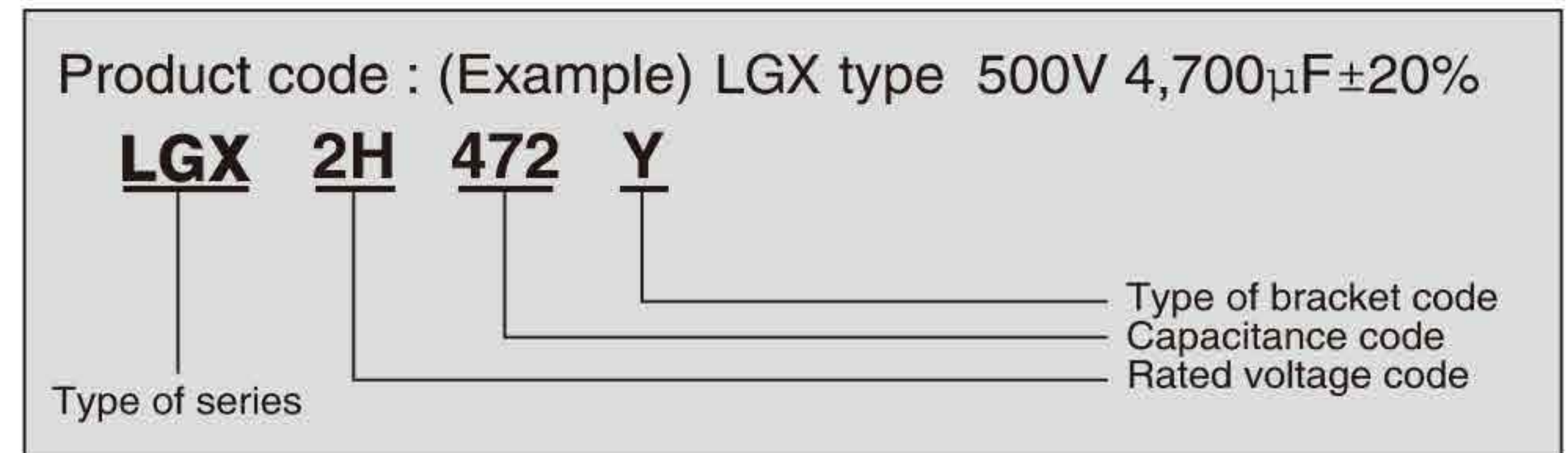
Product Specifications

Items	Specifications
Temperature range	-40°C ~ +105°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	400 ~ 500V.DC
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.



Standard value and case size

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	Product name
400V(2G)	1200	51×75	C8R	0.15	4.2	LGX2G122Y
	1500	51×96	C10R	0.15	5.2	LGX2G152Y
	1800	51×115	C12R	0.15	6.1	LGX2G182Y
	2200	51×130	C13R	0.15	7.1	LGX2G222Y
	2700	64×96	D10R	0.15	7.6	LGX2G272Y
	3300	64×115	D12R	0.15	9.0	LGX2G332Y
	3900	64×130	D13R	0.15	10.3	LGX2G392Y
	4700	64×155	D16R	0.15	12.2	LGX2G472YD
		77×115	E12R	0.15	11.4	LGX2G472YE
	5600	64×170	D17R	0.15	13.8	LGX2G562YD
		77×130	E13R	0.15	13.1	LGX2G562YE
	6800	77×155	E16R	0.15	15.4	LGX2G682YE
		90×131	F13R	0.15	15.4	LGX2G682YF
	8200	77×195	E20R	0.15	18.6	LGX2G822Y
10000	90×171	F17R	0.15	20.5	LGX2G103Y	

Attachment of legs

- See page 10 for shapes and dimensions.
- Product names in the Standard Units Rating Table correspond to the attachment legs for Type Y (Type I for ø36 only), but Type I attachment legs may be used (Shape Code = I).
- If attachment legs are not necessary, enter "N" for the attachment leg shape code.
- Attachment legs will be delivered separately.

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	Product name
450V(2W)	1000	51×75	C8R	0.15	3.9	LGX2W102Y
	1200	51×96	C10R	0.15	4.6	LGX2W122Y
	1500	51×115	C12R	0.15	5.5	LGX2W152Y
	1800	51×130	C13R	0.15	6.4	LGX2W182Y
	2200	64×96	D10R	0.15	6.9	LGX2W222Y
	2700	64×115	D12R	0.15	8.2	LGX2W272YD
		77×96	E10R	0.15	8.1	LGX2W272YE
	3300	77×115	E12R	0.15	9.6	LGX2W332Y
	3900	64×170	D17R	0.15	11.6	LGX2W392Y
	4700	64×195	D20R	0.15	13.4	LGX2W472Y
	5600	77×171	E17R	0.15	14.6	LGX2W562Y
	6800	90×157	F16R	0.15	16.5	LGX2W682Y
	8200	90×171	F17R	0.15	18.7	LGX2W822Y

Rated Voltage V. DC	Capacitance (µF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 105°C, 120Hz	Product name
500V(2H)	1000	51×130	C13R	0.20	4.5	LGX2H102Y
	1200	64×115	D12R	0.20	5.2	LGX2H122Y
	1500	64×130	D13R	0.20	6.1	LGX2H152Y
	1800	77×115	E12R	0.20	6.7	LGX2H182Y
	2200	77×130	E13R	0.20	7.8	LGX2H222Y
	2700	77×155	E16R	0.20	9.3	LGX2H272Y
	3300	77×155	E16R	0.20	10.2	LGX2H332Y
	3900	90×157	F16R	0.20	11.9	LGX2H392Y
	4700	90×171	F17R	0.20	13.5	LGX2H472Y
	5600	90×196	F20R	0.20	15.5	LGX2H562Y
	6800	90×236	F24R	0.20	18.5	LGX2H682Y