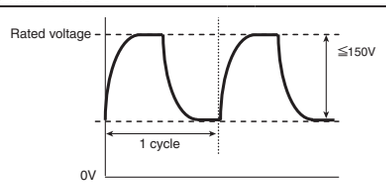
LXU Series

- High capacitance and high ripple current from LXA series
- Endurance with ripple current : 5,000 hours at 105℃
- For frequently change of regenerative voltage from AC servo amplifier and inverter control.
- RoHS2 Compliant
- The logo printed on the sleeve will be changed.

◆ SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-40 to +105℃
Rated Voltage Range	400 & 450Vdc
Capacitance Tolerance	±20%（M） (at 20℃ , 120Hz)
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	0.15 max. (at 20℃ , 120Hz)
Low Temperature Characteristics	Capacitance change C(-25℃) / C(+20℃) ≧ 0.7 (at 120Hz)
Insulation Resistance	When measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500Vdc, the insulation resistance shall not be less than 100MΩ.
Insulation Withstanding Voltage	When a voltage of 2,000Vac is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.
Charge and Discharge	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to charge and discharge test with the voltage waveform shown below at room temperature (15 to 35℃).

Capacitance change	≦ ±20% of the initial value
D.F. (tanδ)	≦ 200% of the initial specified value
Leakage current	≦ The initial specified value

Frequency	3Hz
Number of cycles	50 million times
Voltage waveform	

Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105℃ .

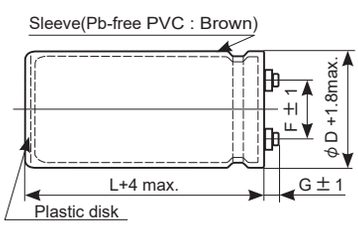
Capacitance change	≦ ±20% of the initial value
D.F. (tan δ)	≦ 200% of the initial specified value
Leakage current	≦ The initial specified value

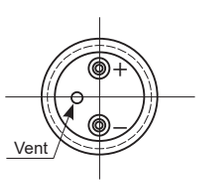
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.

Capacitance change	≦ ±20% of the initial value
D.F. (tan δ)	≦ 200% of the initial specified value
Leakage current	≦ The initial specified value

◆ DIMENSIONS(Screw-Mount) [mm]

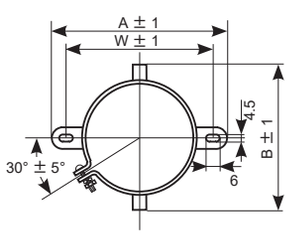
●Terminal Code : LG





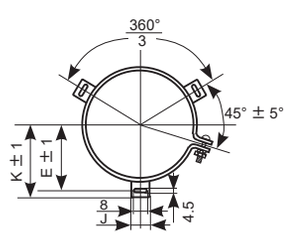
φ63.5、φ 76.2：G=6
φ89：G=4

● Mounting Clamp Code：B



φD	A	B	W	F
63.5	90.0	76.0	80.0	28.0
76.2	104.5	90.0	93.5	31.5

● Mounting Clamp Code：C



φD	E	K	F	J
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0

<Screw specifcations>
Plus hexagon-headed screw :M5×0.8×10
Maximum screw tightening torque :3.23Nm
* The screw and the mounting clamp are separately supplied and not attached to the product.

Please contact us for mass production schedule.
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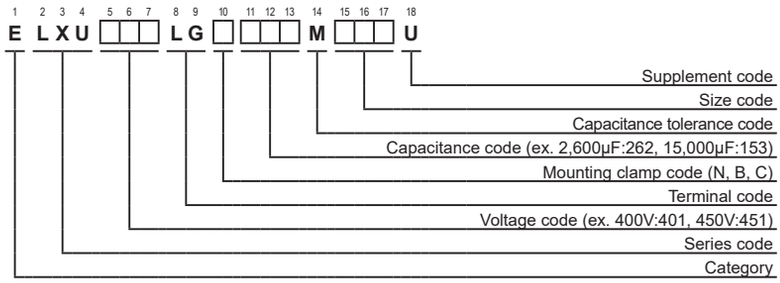
LXU Series

◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φ D×L(mm)	tan δ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
400	2,900	63.5×85	0.15	13.0	ELXU401LGC292MD85U
	3,400	63.5×95	0.15	14.6	ELXU401LGC342MD95U
	3,900	63.5×105	0.15	16.3	ELXU401LGC392MDA5U
	4,300	76.2×85	0.15	17.3	ELXU401LGC432ME85U
	4,400	63.5×115	0.15	17.9	ELXU401LGC442MDB5U
	4,900	63.5×125	0.15	19.4	ELXU401LGC492MDC5U
	5,000	76.2×95	0.15	19.3	ELXU401LGC502ME95U
	5,300	63.5×135	0.15	20.9	ELXU401LGC532MDD5U
	5,400	89×85	0.15	19.8	ELXU401LGC542MF85U
	5,700	76.2×105	0.15	21.4	ELXU401LGC572MEA5U
	5,800	63.5×145	0.15	22.4	ELXU401LGC582MDE5U
	6,200	63.5×155	0.15	23.8	ELXU401LGC622MDF5U
	6,400	76.2×115	0.15	23.4	ELXU401LGC642MEB5U
	6,400	89×95	0.15	22.2	ELXU401LGC642MF95U
	7,000	63.5×170	0.15	26.1	ELXU401LGC702MDH0U
	7,200	76.2×125	0.15	25.4	ELXU401LGC722MEC5U
	7,400	89×105	0.15	24.6	ELXU401LGC742MFA5U
	7,500	63.5×190	0.15	28.2	ELXU401LGC752MDK0U
	7,900	76.2×135	0.15	27.3	ELXU401LGC792MED5U
	8,400	89×115	0.15	26.9	ELXU401LGC842MFB5U
	8,600	76.2×145	0.15	29.2	ELXU401LGC862MEE5U
	9,300	76.2×155	0.15	31.0	ELXU401LGC932MEF5U
	9,400	89×125	0.15	29.2	ELXU401LGC942MFC5U
	10,000	76.2×170	0.15	33.4	ELXU401LGC103MEH0U
	10,000	89×135	0.15	31.0	ELXU401LGC103MFD5U
	11,000	76.2×190	0.15	36.4	ELXU401LGC113MEK0U
	11,000	89×145	0.15	33.2	ELXU401LGC113MFE5U
	12,000	89×155	0.15	35.3	ELXU401LGC123MFF5U
	14,000	89×170	0.15	38.8	ELXU401LGC143MFH0U
	15,000	89×190	0.15	41.9	ELXU401LGC153MFK0U

WV (Vdc)	Cap (μF)	Case size φ D×L(mm)	tan δ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
450	2,600	63.5×85	0.15	12.8	ELXU451LGC262MD85U
	3,000	63.5×95	0.15	14.3	ELXU451LGC302MD95U
	3,400	63.5×105	0.15	15.7	ELXU451LGC342MDA5U
	3,800	76.2×85	0.15	16.8	ELXU451LGC382ME85U
	3,900	63.5×115	0.15	17.3	ELXU451LGC392MDB5U
	4,300	63.5×125	0.15	18.7	ELXU451LGC432MDC5U
	4,400	76.2×95	0.15	18.6	ELXU451LGC442ME95U
	4,700	63.5×135	0.15	20.1	ELXU451LGC472MDD5U
	4,800	89×85	0.15	20.2	ELXU451LGC482MF85U
	5,000	76.2×105	0.15	20.5	ELXU451LGC502MEA5U
	5,200	63.5×145	0.15	21.6	ELXU451LGC522MDE5U
	5,500	63.5×155	0.15	22.8	ELXU451LGC552MDF5U
	5,600	89×95	0.15	22.5	ELXU451LGC562MF95U
	5,700	76.2×115	0.15	22.4	ELXU451LGC572MEB5U
	6,200	63.5×170	0.15	24.9	ELXU451LGC622MDH0U
	6,300	76.2×125	0.15	24.1	ELXU451LGC632MEC5U
	6,500	89×105	0.15	24.8	ELXU451LGC652MFA5U
	6,700	63.5×190	0.15	26.9	ELXU451LGC672MDK0U
	6,900	76.2×135	0.15	25.8	ELXU451LGC692MED5U
	7,400	89×115	0.15	27.0	ELXU451LGC742MFB5U
	7,600	76.2×145	0.15	27.6	ELXU451LGC762MEE5U
	8,200	76.2×155	0.15	29.2	ELXU451LGC822MEF5U
	8,300	89×125	0.15	29.1	ELXU451LGC832MFC5U
	9,200	76.2×170	0.15	31.6	ELXU451LGC922MEH0U
	9,200	89×135	0.15	31.2	ELXU451LGC922MFD5U
	10,000	76.2×190	0.15	34.2	ELXU451LGC103MEK0U
	10,000	89×145	0.15	33.1	ELXU451LGC103MFE5U
	11,000	89×155	0.15	35.1	ELXU451LGC113MFF5U
	12,000	89×170	0.15	37.6	ELXU451LGC123MFH0U
	13,000	89×190	0.15	40.5	ELXU451LGC133MFK0U

◆ RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
φ 63.5	0.70	1.00	1.40	1.80	2.00
φ 76.2	0.70	1.00	1.30	1.60	1.80
φ 89	0.70	1.00	1.20	1.40	1.50

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current.

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