LXR Series

- Higher ripple capability than LXA series
- Endurance with ripple current : 5,000 hours at 105℃
- RoHS2 Compliant

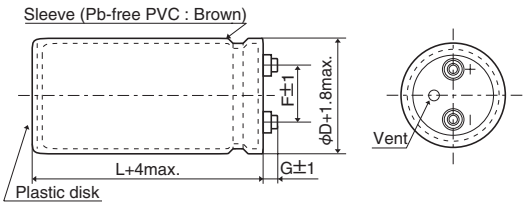
LXR
↑ Higher ripple
LXA P7-28

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-25 to +105℃	
Rated Voltage Range	350 to 450V_{dc}	
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)	0.15max.	(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 500V_{dc}, the insulation resistance shall not be less than than 100MΩ.	
Insulation Withstanding Voltage	When a voltage of 2,000V_{ac} 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.	
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

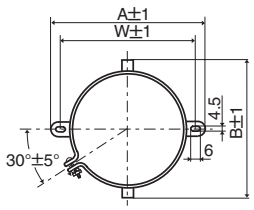
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



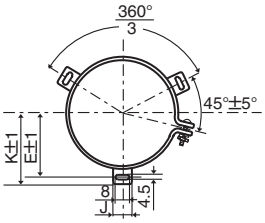
ϕ63.5 & ϕ76.2 : G=6
ϕ89 : G=4
ϕ100 : G=10

●Mounting Clamp Code : B



ϕD	A	B	W	F
63.5	90	76	80	28.0
76.2	104.5	90	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
100	56.5	63.4	41.5	18.0

<Screw specifications>
to ϕ89 Plus hexagon-headed screw :M5×0.8×10
Maximum screw tightening torque :3.23Nm

ϕ100 Cross-recessed head (Phillips) screw : M8×1.25×16
Spring washer,Washer
Maximum screw tightening torque :6.31Nm

* The screw and the mounting clamp are separately supplied and not attached to the product.

◆PART NUMBERING SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	L	X	R				L	G					M				M

Supplement code
Size code
Capacitance tolerance code
Capacitance code (ex. 3,300μF:332, 10,000μF:103)
Mounting clamp code (N, B, C)
Terminal code
Voltage code (ex. 350V:351,400V:401)
Series code
Category

Please refer to "Product code guide (screw-mount terminal type)"

LXR Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
350	3,300	63.5 × 115	0.15	14.4	ELXR351LGC332MDB5M
	3,900	63.5 × 130	0.15	16.6	ELXR351LGC392MDD0M
	4,700	63.5 × 155	0.15	19.8	ELXR351LGC472MDF5M
	4,700	76.2 × 115	0.15	19.1	ELXR351LGC472MEB5M
	5,600	63.5 × 170	0.15	22.5	ELXR351LGC562MDH0M
	5,600	76.2 × 130	0.15	21.9	ELXR351LGC562MED0M
	6,800	76.2 × 155	0.15	26.2	ELXR351LGC682MEF5M
	8,200	76.2 × 170	0.15	30.0	ELXR351LGC822MEH0M
	8,200	89 × 155	0.15	29.2	ELXR351LGC822MFF5M
	10,000	89 × 170	0.15	33.7	ELXR351LGC103MFH0M
	12,000	100 × 190	0.15	37.8	ELXR351LGC123MGK0M
	15,000	100 × 250	0.15	47.7	ELXR351LGC153MGR0M
400	2,700	63.5 × 115	0.15	13.1	ELXR401LGC272MDB5M
	3,300	63.5 × 130	0.15	15.2	ELXR401LGC332MDD0M
	3,900	63.5 × 155	0.15	17.9	ELXR401LGC392MDF5M
	3,900	76.2 × 115	0.15	18.2	ELXR401LGC392MEB5M
	4,700	63.5 × 170	0.15	20.5	ELXR401LGC472MDH0M
	4,700	76.2 × 130	0.15	20.1	ELXR401LGC472MED0M
	5,600	76.2 × 155	0.15	23.8	ELXR401LGC562MEF5M
400	6,800	76.2 × 170	0.15	27.3	ELXR401LGC682MEH0M
	6,800	89 × 155	0.15	26.6	ELXR401LGC682MFF5M
	8,200	89 × 170	0.15	30.5	ELXR401LGC822MFH0M
	10,000	100 × 190	0.15	34.5	ELXR401LGC103MGK0M
	12,000	100 × 220	0.15	40.2	ELXR401LGC123MGN0M
450	2,200	63.5 × 115	0.15	11.8	ELXR451LGC222MDB5M
	2,700	63.5 × 130	0.15	13.7	ELXR451LGC272MDD0M
	2,700	76.2 × 115	0.15	14.5	ELXR451LGC272MEB5M
	3,300	63.5 × 155	0.15	16.5	ELXR451LGC332MDF5M
	3,300	76.2 × 130	0.15	16.9	ELXR451LGC332MED0M
	3,900	63.5 × 170	0.15	18.7	ELXR451LGC392MDH0M
	4,700	76.2 × 155	0.15	21.7	ELXR451LGC472MEF5M
	5,600	76.2 × 190	0.15	26.1	ELXR451LGC562MEK0M
	5,600	89 × 155	0.15	24.1	ELXR451LGC562MFF5M
	6,800	89 × 170	0.15	27.8	ELXR451LGC682MFH0M
	8,200	89 × 190	0.15	32.0	ELXR451LGC822MFK0M
	10,000	100 × 220	0.15	36.8	ELXR451LGC103MGN0M
	12,000	100 × 250	0.15	42.7	ELXR451LGC123MGR0M

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	120	300	1k	3k
Coefficient	1.0	1.1	1.3	1.4

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5 to 10℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced. Also, for the LXR series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For details, please contact a representative of Nippon Chemi-Con.