

LUR SERIES

NEW

85°C Low Thermal Resistance

- Load Life : 85°C 5000hours.
- Low thermal resistance structure.

RoHS
compliance



◆ SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-25~+85℃															
Rated Voltage Range	350~500Vdc															
Capacitance Tolerance	±20% (20℃, 120Hz)															
Leakage Current(MAX)	I=3√CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)															
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Vdc \ φD</td><td>64</td><td>77</td><td>90</td></tr><tr><td>350~450</td><td>0.25</td><td>0.25</td><td>0.25</td></tr><tr><td>500</td><td>0.30</td><td>0.30</td><td>0.30</td></tr></table> (20℃, 120Hz)				Vdc \ φD	64	77	90	350~450	0.25	0.25	0.25	500	0.30	0.30	0.30
Vdc \ φD	64	77	90													
350~450	0.25	0.25	0.25													
500	0.30	0.30	0.30													
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 85℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table>				Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.						
Capacitance Change	Within ±20% of the initial value.															
Dissipation Factor	Not more than 200% of the specified value.															
Leakage Current	Not more than the specified value.															

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60 (50)	120 (100)	300	500	1k	10k≤
Coefficient	350~450Vdc	0.80	1.00	1.17	1.23	1.30	1.40
	500Vdc	0.80	1.00	1.15	1.20	1.25	1.30

◆PART NUMBER

□□□	LUR	□□□□□	M	□□□	□□	DXL
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Mounting Code	Case Size

◆ DIMENSIONS

< Clamp Mounting >

(I type)

Diagram of I-type clamp mounting. Side view shows a cylindrical case with a mounting clamp, sleeve, and screw terminal. End view shows the clamp bolt, vent, and dimensions W1, W2, W3, W4, W5. Dimensions: $D \pm 2$, $L \pm 3$, $L_t \pm 1$, $D \pm 0.5$, $W1 \pm 2$, $W2 \pm 2$, $W3$, $W4$, $W5$, $M5 P=0.8$ or $M6 P=1.0$.

(Y type)

Diagram of Y-type clamp mounting. Side view shows a cylindrical case with a mounting clamp, sleeve, and screw terminal. End view shows the clamp bolt, vent, and dimensions W1, W2, W3, W4, W5. Dimensions: $D \pm 2$, $L \pm 3$, $L_t \pm 1$, $D \pm 0.5$, $W1 \pm 2$, $W2 \pm 2$, $W3$, $W4$, $W5$, $M5 P=0.8$ or $M6 P=1.0$.

		ϕD	Dt	W1	W2	W3	W4	W5	F
I type	64	13.0	40.0	45.0	4.5	7.0	12	28.5	
	77	17.3	47.0	53.0	4.5	6.0	12	31.8	
	90	17.3	54.0	60.0	4.5	6.0	14	31.8	
Y type	64	13.0	38.0	43.0	4.5	8.0	14	28.5	
	77	17.3	44.5	49.0	4.5	7.0	14	31.8	
	90	17.3	50.8	56.0	4.5	8.0	16	31.8	

< Stud Mounting >

(Nylon cap nut)

Diagram of stud mounting using a nylon cap nut. Side view shows a cylindrical case with a mounting plate, sleeve, and screw terminal. End view shows the vent and dimensions W1, W2, W3, W4, W5. Dimensions: $D \pm 2$, $L \pm 3$, $L_t \pm 1$, $D \pm 0.5$, 16 ± 1 , 19 , 15 , 22 , 30 , 38 , 1.45 , 17.5 , $M12$, $M5 P=0.8$ or $M6 P=1.0$.

(Nylon shoulder washer)

Diagram of stud mounting using a nylon shoulder washer. Side view shows the washer and dimensions 4, 2, $\phi 35$, $\phi 23.5$, $\phi 12.7$. End view shows the washer and dimensions 15, 22, 30, 38, 1.45, 17.5, $M12$.

	ϕD	Dt	F
Nylon cap nut	64	13.0	28.5
	77	17.3	31.8
	90	17.3	31.8

•Nut and washer for stud mounting are option.

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (uF)	Size		Rated Ripple Current (Arms 85°C, 120Hz)	
		φDXL (mm)	Lt (mm)	Ta=85°C※1	Tc=85°C※2
350	3300	64×96	103	12.1	17.3
	3900	64×106	113	13.3	18.7
	4700	64×126	133	15.1	20.6
	5600	64×146	153	16.9	22.7
	5600	77×103	109.5	19.5	28.4
	6800	77×133	139.5	21.4	30.1
	8200	77×153	159.5	24.1	33.2
	8200	90×103	109.8	25.1	41.0
	10000	77×193	199.5	28.2	37.4
	10000	90×133	139.8	30.4	47.4
	12000	77×193	199.5	29.5	39.2
	15000	77×220	226.5	35.8	46.6
	15000	90×193	199.8	40.6	59.4
	18000	90×193	199.8	42.3	61.9
	22000	90×220	226.8	47.1	67.4
400	2700	64×96	103	11.5	16.5
	3300	64×106	113	12.8	18.0
	3900	64×126	133	14.4	19.8
	4700	64×146	153	16.2	21.8
	4700	77×103	109.5	18.6	27.1
	5600	77×133	139.5	20.4	28.7
	6800	77×133	139.5	23.1	32.5
	6800	90×103	109.8	24.1	39.4
	8200	77×153	159.5	26.0	35.8
	8200	90×133	139.8	28.9	45.2
	10000	77×193	199.5	28.2	37.5
	10000	90×133	139.8	30.4	47.5
	12000	77×220	226.5	31.3	40.8
	12000	90×153	159.8	34.2	52.1
	15000	90×193	199.8	40.6	59.3
	18000	90×220	226.8	45.1	64.5

Ta: Ambient temperature under natural convection.
Tc: Case bottom temperature.

Rated Voltage (Vdc)	Capacitance (uF)	Size		Rated Ripple Current (Arms 85°C, 120Hz)	
		φDXL (mm)	Lt (mm)	Ta=85°C※1	Tc=85°C※2
450	2200	64×96	103	10.9	15.7
	2700	64×106	113	12.1	17.1
	3300	64×126	133	13.8	18.9
	3300	77×103	109.5	15.7	22.9
	3900	64×146	153	15.4	20.8
	3900	77×113	119.5	17.2	24.8
	4700	77×133	139.5	19.5	27.3
	5600	77×153	159.5	21.8	30.0
	5600	90×103	109.8	23.0	37.5
	6800	77×193	199.5	25.3	33.7
	6800	90×133	139.8	27.5	43.0
	8200	77×193	199.5	26.8	35.6
	8200	90×133	139.8	29.0	45.2
	10000	77×220	226.5	31.9	41.5
	10000	90×193	199.8	36.4	53.3
500	12000	90×193	199.8	38.3	56.1
	15000	90×220	226.8	43.0	61.6
	1800	64×96	103	9.5	13.6
	2200	64×106	113	10.6	14.9
	2700	64×126	133	12.0	16.5
	2700	77×103	109.5	13.6	19.8
	3300	64×146	153	13.6	18.3
	3300	77×113	119.5	15.1	21.7
	3900	77×133	139.5	16.9	23.8
	4700	77×153	159.5	19.0	26.1
	4700	90×103	109.8	20.2	33.0
	5600	77×153	159.5	21.2	29.2
	5600	90×133	139.8	23.9	37.3
	6800	77×193	199.5	23.3	31.0
	6800	90×133	139.8	25.5	39.8
	8200	77×220	226.5	26.0	33.9
	8200	90×153	159.8	28.6	43.6
	10000	90×193	199.8	33.5	49.1
	12000	90×220	226.8	37.4	53.5

※1: Rated ripple current in continuous operation under natural convection at Ta=85°C.
※2: Rated ripple current in continuous operation under forced convection at Tc=85°C.

◆Tightening torque of bolt and Permissible current of terminal

Clamp Bolt	Recommended Tightening torque
M3	0.6 [N·m]
M4	1.3 [N·m]

Terminal	Recommended Tightening torque (Permissible Range)	Permissible Current of Terminal
M5	2.2(1.5~3.2) [N·m]	60 [A r.m.s.]
M6	3.2(3.0~3.5) [N·m]	100 [A r.m.s.]

◆Tightening torque of stud fixing nylon nut

Nylon Nut	Recommended Tightening torque
M12	10.0 [N·m]

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