

L7A Series

Useful of 4,000 hours at 85°C (Warranty of 2,000 hours at 85°C)

Features

- The size is reduced by 15% of the L6A type through improvement of etched foil technology and the same level of permissible ripple current as that of the L6A type is provided.



Product Specifications

Items	Specifications
Temperature range	-25°C ~ +85°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	6.3 ~ 250V.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. (40°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 2000 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	70	85	
Correction coefficient	1.0	0.81	0.62	0.37	
Frequency (Hz)	50/60	120	300	1K	≥10K
Correction coefficient	0.8	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.

Attachment of legs

- See page 14 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.

Standard value and case size

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
6.3V(OJ)	47000	36×53	A5	1.00	13.4	L7A0J473I PPS
	68000	36×65	A6	1.20	14.8	L7A0J683I PPS
	100000	36×83	A8	1.20	19.7	L7A0J104I PPS
	150000	51×83	C8	1.40	25.6	L7A0J154YPH
	220000	51×100	C10	1.40	33.5	L7A0J224YPH
	330000	64×100	D10	1.50	43.6	L7A0J334YPH
	470000	64×121	D12	1.80	50.8	L7A0J474YPH
	680000	77×121	E12	2.90	54.4	L7A0J684YPH

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
10V(1A)	33000	36×53	A5	0.90	11.9	L7A1A333I PPS
	47000	36×65	A6	0.90	15.2	L7A1A473I PPS
	68000	36×83	A8	1.20	20.3	L7A1A683I PPS
	100000	36×121	A12	1.20	25.0	L7A1A104I PPS
	150000	51×83	C8	1.40	27.6	L7A1A154YPH
	220000	51×121	C12	1.50	37.6	L7A1A224YPH
	330000	64×121	D12	1.80	46.5	L7A1A334YPH
	470000	77×121	E12	2.30	52.0	L7A1A474YPH

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
16V(1C)	22000	36×53	A5	0.80	11.2	L7A1C233I PPS
	33000	36×65	A6	0.80	14.8	L7A1C333I PPS
	47000	36×83	A8	0.80	19.6	L7A1C473I PPS
	68000	36×121	A12	1.10	27.7	L7A1C683I PPS
	100000	51×83	C8	1.10	29.4	L7A1C104YPH
	150000	51×121	C12	1.20	34.0	L7A1C154YPH
	220000	64×100	D10	1.40	39.7	L7A1C224YPH
	330000	77×121	E12	1.80	49.2	L7A1C334YPH

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
25V(1E)	22000	36×65	A6	0.50	12.1	L7A1E223I PPS
	33000	36×83	A8	0.90	14.2	L7A1E333I PPS
	47000	36×121	A12	0.90	19.8	L7A1E473I PPS
	68000	51×100	C10	0.90	25.1	L7A1E683YPH
	100000	51×121	C12	0.90	28.5	L7A1E104YPH
	150000	64×100	D10	1.20	34.7	L7A1E154YPH
	220000	64×144	D15	1.20	48.9	L7A1E224YPH
	330000	77×144	E15	1.40	52.7	L7A1E334YPH

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
35V(1V)	10000	36×53	A5	0.40	9.6	L7A1V103I PPS
	15000	36×65	A6	0.45	10.7	L7A1V153I PPS
	22000	36×83	A8	0.45	13.4	L7A1V223I PPS
	33000	36×121	A12	0.50	19.4	L7A1V333I PPS
	47000	51×83	C8	0.50	22.5	L7A1V473YPH
	68000	51×100	C10	0.70	27.6	L7A1V683YPH
	100000	64×100	D10	1.00	29.5	L7A1V104YPH
	150000	64×144	D15	1.00	41.4	L7A1V154YPH
	220000	77×144	E15	1.20	46.8	L7A1V224YPH

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
50V(1H)	6800	36×53	A5	0.35	8.8	L7A1H682I PPS
	10000	36×65	A6	0.35	11.6	L7A1H103I PPS
	15000	36×83	A8	0.35	12.7	L7A1H153I PPS
	22000	36×121	A12	0.40	18.2	L7A1H223I PPS
	33000	51×83	C8	0.40	20.3	L7A1H333YPH
	47000	51×100	C10	0.50	25.9	L7A1H473YPH
	68000	64×100	D10	0.70	32.2	L7A1H683YPH
	100000	64×144	D15	0.70	36.8	L7A1H104YPH
	150000	77×144	E15	0.90	37.8	L7A1H154YPH

Rated Voltage V. DC	Capacitance ( $\mu$ F)	Case size $\phi$ DXL(mm)	Case code	$\tan\delta$ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
63V(1J)	6800	36×53	A5	0.20	10.2	L7A1J682I PPS
	10000	36×83	A8	0.30	12.8	L7A1J103I PPS
	15000	36×100	A10	0.35	15.1	L7A1J153I PPS
	22000	51×83	C8	0.40	20.9	L7A1J223Y PH
	33000	51×100	C10	0.40	23.6	L7A1J333Y PH
	47000	64×100	D10	0.40	32.1	L7A1J473Y PH
	68000	64×144	D15	0.50	37.2	L7A1J683Y PH
	100000	77×144	E15	0.70	41.1	L7A1J104Y PH

Rated Voltage V. DC	Capacitance ( $\mu$ F)	Case size $\phi$ DXL(mm)	Case code	$\tan\delta$ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
80V(1K)	4700	36×53	A5	0.15	10.4	L7A1K472I PPS
	6800	36×83	A8	0.22	12.1	L7A1K682I PPS
	10000	36×100	A10	0.22	16.0	L7A1K103I PPS
	15000	51×83	C8	0.30	20.7	L7A 1K153Y PH
	22000	51×100	C10	0.30	23.5	L7A 1K223Y PH
	33000	64×100	D10	0.35	28.5	L7A 1K333Y PH
	47000	64×144	D15	0.35	39.0	L7A 1K473Y PH
	68000	77×144	E15	0.40	45.3	L7A 1K683Y PH

Rated Voltage V. DC	Capacitance ( $\mu$ F)	Case size $\phi$ DXL(mm)	Case code	$\tan\delta$ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
100V(2A)	3300	36×53	A5	0.15	8.7	L7A2A332I PPS
	4700	36×83	A8	0.15	12.4	L7A2A472I PPS
	6800	36×100	A10	0.20	13.2	L7A2A682I PPS
	10000	51×83	C8	0.20	16.9	L7A 2A103Y PH
	15000	51×121	C12	0.20	24.1	L7A 2A153Y PH
	22000	64×100	D10	0.20	25.9	L7A 2A223Y PH
	33000	64×144	D15	0.25	33.0	L7A 2A333Y PH
	47000	77×144	E15	0.30	37.6	L7A 2A473Y PH

Rated Voltage V. DC	Capacitance ( $\mu$ F)	Case size $\phi$ DXL(mm)	Case code	$\tan\delta$ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
160V(2C)	1500	36×83	A8	0.25	6.9	L7A2C152I PPS
	2200	36×100	A10	0.25	9.2	L7A2C222I PPS
	3300	51×83	C8	0.25	12.0	L7A 2C332Y PH
	4700	51×100	C10	0.25	15.3	L7A 2C472Y PH
	6800	64×100	D10	0.25	20.4	L7A 2C682Y PH
	10000	64×121	D12	0.25	26.5	L7A 2C103Y PH
	15000	77×121	E12	0.25	34.4	L7A 2C153Y PH

Rated Voltage V. DC	Capacitance ( $\mu$ F)	Case size $\phi$ DXL(mm)	Case code	$\tan\delta$ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
200V(2D)	1000	36×65	A6	0.25	5.2	L7A2D102I PPS
	1500	36×83	A8	0.25	6.9	L7A2D152I PPS
	2200	36×121	A12	0.25	9.9	L7A2D222I PPS
	3300	51×83	C8	0.25	12.0	L7A 2D332Y PH
	4700	51×121	C12	0.25	16.6	L7A 2D472Y PH
	6800	64×121	D12	0.25	21.9	L7A 2D682Y PH
	10000	77×121	E12	0.25	28.1	L7A 2D103Y PH

Rated Voltage V. DC	Capacitance ( $\mu$ F)	Case size $\phi$ DXL(mm)	Case code	$\tan\delta$ 20°C,120Hz	Ripple current (Arms) 40°C,120Hz	Product name
250V(2E)	1000	36×83	A8	0.25	5.6	L7A2E102I PPS
	1500	36×121	A12	0.25	8.1	L7A2E152I PPS
	2200	51×83	C8	0.25	9.9	L7A 2E222Y PH
	3300	51×121	C12	0.25	13.9	L7A 2E332Y PH
	4700	64×100	D10	0.25	16.9	L7A 2E472Y PH
	6800	64×144	D15	0.25	23.5	L7A 2E682Y PH
	10000	77×144	E15	0.25	30.0	L7A 2E103Y PH