

## L7 series

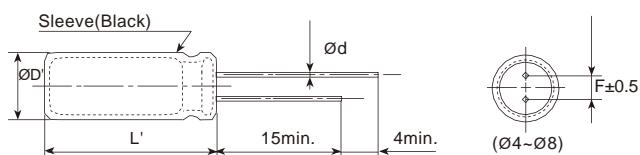
- Miniature series with 7mm height
- Endurance : +105 °C 2,000 hours
- Wide temperature range of -40°C to +105°C
- RoHS Compliant



### SPECIFICATIONS

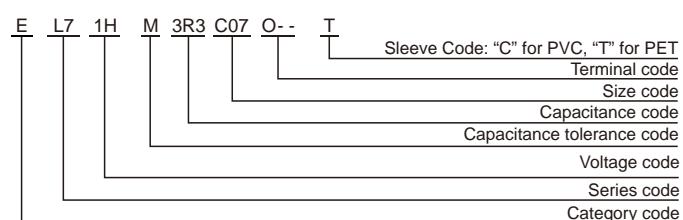
Items	Characteristics						
Category Temperature Range	-40~+105°C						
Rated Voltage Range	6.3~63 V <sub>dc</sub>						
Capacitance Tolerance	$\pm 20\% (M)$ (at 20°C, 120Hz)						
Leakage Current	I < 0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)						
Dissipation Factor (tan δ)	Rated Voltage(V <sub>dc</sub> )	6.3	10	16	25	35	50
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10
							0.09
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	4	3				2
	Z(-40°C)/Z(+20°C)	8	6	4			3
							(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C.						
	Capacitance Change	$\pm 20\%$ 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°C after exposing them for 1,000 hours at 105°C without voltage applied.						
	Capacitance Change	$\pm 20\%$ of the initial value					
	D.F. (tan δ)	200% of the initial specified value					
	Leakage Current	200% of the initial specified value					

### DIMENSIONS[mm]



ØD	4	5	6.3	8
Ød	0.45	0.45	0.5	0.5
F	1.5	2.0	2.5	3.5
ØD'	$\text{ØD}+0.5\text{max.}$			
L'	L+2max.			

### PART NUMBERING SYSTEM



Radial Type

### RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

WV(V <sub>dc</sub> )	Freq.(Hz)			
	50/60	120	1k	10k-100k
6.3 to 16	0.80	1.00	1.30	1.50
25 to 35	0.80	1.00	1.20	1.20
50	0.80	1.00	1.15	1.20

The endurance of capacitors is shortened with internal heating produced by ripple current at the rate of halving the lifetime with every 5 °C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

**L7** series**STANDARD RATINGS**

<b>WV (V<sub>dc</sub>)</b>	<b>Cap (μF)</b>	<b>Size DxL(mm)</b>	<b>tan</b>	<b>Rated ripple current (mA<sub>rms</sub>/105°C, 120Hz)</b>	<b>Part Number</b>
6.3(0J)	22	4x7	0.22	28	EL70JM220C07OT
	33	4x7	0.22	32	EL70JM330C07OT
	5x7	0.22	35	EL70JM330D07OT	
	47	5x7	0.22	47	EL70JM470D07OT
	68	5x7	0.22	50	EL70JM680D07OT
	100	6.3x7	0.22	75	EL70JM101E07OT
	220	8x7	0.22	92	EL70JM221F07OT
10(1A)	22	4x7	0.19	32	EL71AM220C07OT
	33	5x7	0.19	48	EL71AM330D07OT
	47	5x7	0.19	51	EL71AM470D07OT
	68	6.3x7	0.19	68	EL71AM680E07OT
	100	6.3x7	0.19	80	EL71AM101E07OT
		8x7	0.19	95	EL71AM101F07OT
	220	8x7	0.19	130	EL71AM221F07OT
16(1C)	10	4x7	0.16	28	EL71CM100C07OT
	22	4x7	0.16	35	EL71CM220C07OT
		5x7	0.16	42	EL71CM220D07OT
	33	5x7	0.16	50	EL71CM330D07OT
	47	6.3x7	0.16	67	EL71CM470E07OT
	68	6.3x7	0.16	70	EL71CM680E07OT
		8x7	0.16	78	EL71CM680F07OT
25(1E)	100	8x7	0.16	110	EL71CM101F07OT
	4.7	4x7	0.14	17	EL71EM4R7C07OT
	6.8	4x7	0.14	19	EL71EM6R8C07OT
	10	4x7	0.14	28	EL71EM100C07OT
		5x7	0.14	33	EL71EM100D07OT
	22	5x7	0.14	43	EL71EM220D07OT
		6.3x7	0.14	45	EL71EM220E07OT
63(1J)	33	6.3x7	0.14	62	EL71EM330E07OT
	47	8x7	0.14	75	EL71EM470F07OT
	68	8x7	0.14	80	EL71EM680F07OT
	100	8x7	0.14	115	EL71EM101F07OT

<b>WV (V<sub>dc</sub>)</b>	<b>Cap (μF)</b>	<b>Size DxL(mm)</b>	<b>tan</b>	<b>Rated ripple current (mA<sub>rms</sub>/105°C, 120Hz)</b>	<b>Part Number</b>
35(1V)	4.7	4x7	0.12	22	EL71VM4R7C07OT
	6.8	4x7	0.12	24	EL71VM6R8C07OT
		5x7	0.12	28	EL71VM6R8D07OT
	10	5x7	0.12	35	EL71VM100D07OT
	22	6.3x7	0.12	60	EL71VM220E07OT
	33	6.3x7	0.12	50	EL71VM330E07OT
		8x7	0.12	68	EL71VM330F07OT
50(1H)	47	8x7	0.12	80	EL71VM470F07OT
	68	8x7	0.12	85	EL71VM680F07OT
	0.1	4x7	0.10	1.5	EL71HMR10C07OT
	0.22	4x7	0.10	2.5	EL71HMR22C07OT
	0.33	4x7	0.10	3.5	EL71HMR33C07OT
	0.47	4x7	0.10	5	EL71HMR47C07OT
	0.68	4x7	0.10	7	EL71HMR68C07OT
63(1J)	1	4x7	0.10	10	EL71HM010C07OT
	2.2	4x7	0.10	20	EL71HM2R2C07OT
	3.3	4x7	0.10	26	EL71HM3R3C07OT
	4.7	4x7	0.10	27	EL71HM4R7C07OT
		5x7	0.10	29	EL71HM4R7D07OT
	10	6.3x7	0.10	38	EL71HM100E07OT
	22	8x7	0.10	63	EL71HM220F07OT
89	33	8x7	0.10	78	EL71HM330F07OT
	0.1	4x7	0.09	1.5	EL71JMR10C07OT
	0.22	4x7	0.09	2.5	EL71JMR22C07OT
	0.33	4x7	0.09	3.5	EL71JMR33C07OT
	0.47	4x7	0.09	6	EL71JMR47C07OT
	1	4x7	0.09	12	EL71JM010C07OT
	2.2	4x7	0.09	20	EL71JM2R2C07OT
	3.3	5x7	0.09	28	EL71JM3R3D07OT
	4.7	6.3x7	0.09	33	EL71JM4R7E07OT
	10	6.3x7	0.09	40	EL71JM100E07OT
	22	8x7	0.09	65	EL71JM220F07OT