

L7 series

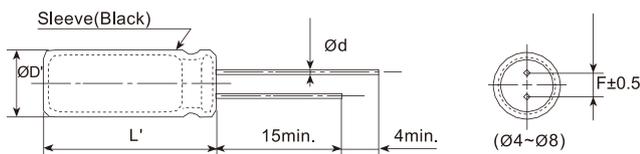
- Miniature series with 7mm height
- Endurance : +105 °C 2,000 hours
- Wide temperature range of -40°C to +105°C
- RoHS Compliant



SPECIFICATIONS

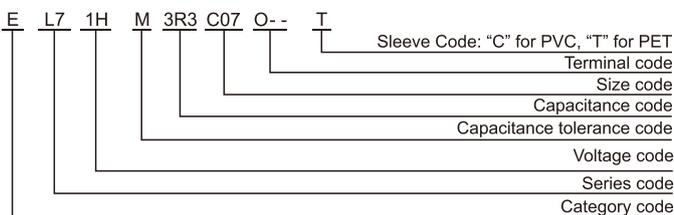
Items	Characteristics								
Category Temperature Range	-40~+105°C								
Rated Voltage Range	6.3~63 V _{dc}								
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)								
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)								
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	(at 20°C, 120Hz)
	tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	(at 120Hz)
	Z(-25°C)/Z(+20°C)	4	3	2					
	Z(-40°C)/Z(+20°C)	8	6	4	3				
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	≤±20% of the initial value							
	D.F. (tanδ)	≤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	≤±20% of the initial value							
	D.F. (tanδ)	≤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'	øD+0.5max.			
L'	L+2max.			

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

WV(V _{dc})	Freq.(Hz)	50/60	120	1k	10k-100k
	6.3 to 16		0.80	1.00	1.30
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.

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■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size D×L(mm)	tanδ	Rated ripple current (mA _{rms} /105°C, 120Hz)	Part Number
6.3(0J)	22	4×7	0.22	28	EL70JM220C07OT
	33	4×7	0.22	32	EL70JM330C07OT
		5×7	0.22	35	EL70JM330D07OT
	47	5×7	0.22	47	EL70JM470D07OT
	68	5×7	0.22	50	EL70JM680D07OT
	100	6.3×7	0.22	75	EL70JM101E07OT
	220	8×7	0.22	92	EL70JM221F07OT
10(1A)	22	4×7	0.19	32	EL71AM220C07OT
	33	5×7	0.19	48	EL71AM330D07OT
	47	5×7	0.19	51	EL71AM470D07OT
	68	6.3×7	0.19	68	EL71AM680E07OT
	100	6.3×7	0.19	80	EL71AM101E07OT
		8×7	0.19	95	EL71AM101F07OT
	220	8×7	0.19	130	EL71AM221F07OT
16(1C)	10	4×7	0.16	28	EL71CM100C07OT
	22	4×7	0.16	35	EL71CM220C07OT
		5×7	0.16	42	EL71CM220D07OT
	33	5×7	0.16	50	EL71CM330D07OT
	47	6.3×7	0.16	67	EL71CM470E07OT
	68	6.3×7	0.16	70	EL71CM680E07OT
		8×7	0.16	78	EL71CM680F07OT
	100	8×7	0.16	110	EL71CM101F07OT
25(1E)	4.7	4×7	0.14	17	EL71EM4R7C07OT
	6.8	4×7	0.14	19	EL71EM6R8C07OT
	10	4×7	0.14	28	EL71EM100C07OT
		5×7	0.14	33	EL71EM100D07OT
	22	5×7	0.14	43	EL71EM220D07OT
		6.3×7	0.14	45	EL71EM220E07OT
	33	6.3×7	0.14	62	EL71EM330E07OT
	47	8×7	0.14	75	EL71EM470F07OT
	68	8×7	0.14	80	EL71EM680F07OT
	100	8×7	0.14	115	EL71EM101F07OT

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