

# M7 series

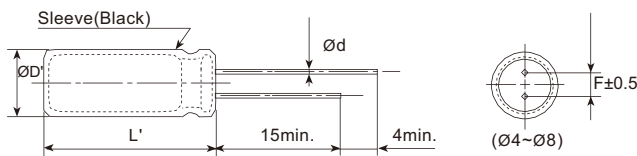
- Standard miniature series with 7mm height
- Endurance: 1,000 hours at 85°C
- **RoHS Compliant**



## SPECIFICATIONS

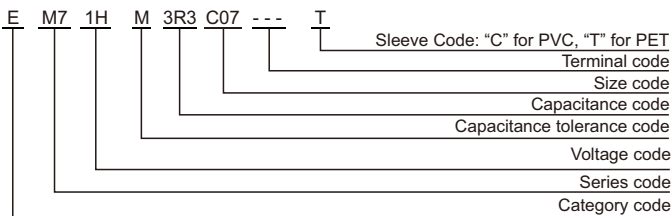
Items	Characteristics									
Category Temperature Range	-40~+85°C									
Rated Working Voltage Range	6.3~100 V <sub>dc</sub>									
Capacitance Tolerance	±20%(M) (at 20°C,120Hz)									
Leakage Current	I≤0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V) (at 20°C after 2 minutes)									
Dissipation Factor (tanδ)	Rated Voltage(V <sub>dc</sub> )	6.3	10	16	25	35	50	63	100	(at 20°C,120Hz)
	Dissipation Factor(max.)	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.08	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V <sub>dc</sub> )	6.3	10	16	25	35	50	63	100	(at 120Hz)
	Z(-25°C)/Z(+20°C)	4	3	2						
	Z(-40°C)/Z(+20°C)	10	8	6	4					
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 85°C.									
	Capacitance Change	≤±20% of the initial value								
	Dissipation Factor	≤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 500 hours at 85°C without voltage applied.									
	Capacitance Change	≤±20% of the initial value								
	Dissipation Factor	≤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+1.5max.			

## PART NUMBERING SYSTEM



## 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	1.10	1.20
25 to 35	0.80	1.00	1.50	1.70
≥50	0.80	1.00	1.60	1.90

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■ STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA <sub>rms</sub> /85°C, 120Hz)	Part Number
6.3	22	4x7	35	EM70JM220C07---T
	33	4x7	40	EM70JM330C07---T
	47	4x7	50	EM70JM470C07---T
	100	5x7	80	EM70JM101D07---T
	220	6.3x7	140	EM70JM221E07---T
	330	8x7	205	EM70JM331F07---T
10	22	4x7	35	EM71AM220C07---T
	33	4x7	45	EM71AM330C07---T
	47	5x7	60	EM71AM470D07---T
	100	6.3x7	108	EM71AM101E07---T
	220	8x7	185	EM71AM221F07---T
16	10	4x7	35	EM71CM100C07---T
	22	4x7	40	EM71CM220C07---T
	33	5x7	55	EM71CM330D07---T
	47	5x7	70	EM71CM470D07---T
	100	6.3x7	120	EM71CM101E07---T
	220	8x7	205	EM71CM221F07---T
25	10	4x7	30	EM71EM100C07---T
	22	5x7	50	EM71EM220D07---T
	33	6.3x7	70	EM71EM330E07---T
	47	6.3x7	85	EM71EM470E07---T
	100	8x7	145	EM71EM101F07---T
35	10	4x7	30	EM71VM100C07---T
	22	5x7	55	EM71VM220D07---T
	33	6.3x7	75	EM71VM330E07---T
	47	8x7	110	EM71VM470F07---T
50	0.1	4x7	4	EM71HMR10C07---T
	0.22	4x7	5	EM71HMR22C07---T
	0.33	4x7	7	EM71HMR33C07---T
	0.47	4x7	8	EM71HMR47C07---T
	1	4x7	10	EM71HM010C07---T
	2.2	4x7	15	EM71HM2R2C07---T
	3.3	4x7	20	EM71HM3R3C07---T
	4.7	4x7	24	EM71HM4R7C07---T
	10	5x7	40	EM71HM100D07---T
	22	6.3x7	70	EM71HM220E07---T
33	8x7	100	EM71HM330F07---T	
63	0.1	4x7	4	EM71JMR10C07---T
	0.22	4x7	6	EM71JMR22C07---T
	0.33	4x7	7	EM71JMR33C07---T
	0.47	4x7	8	EM71JMR47C07---T
	1	4x7	10	EM71JM010C07---T
	2.2	4x7	15	EM71JM2R2C07---T
	3.3	4x7	23	EM71JM3R3C07---T
	4.7	5x7	30	EM71JM4R7D07---T
	10	6.3x7	50	EM71JM100E07---T
100	1	4x7	12	EM71KM010C07---T
	2.2	5x7	20	EM71KM2R2D07---T
	3.3	6.3x7	30	EM71KM3R3E07---T
	4.7	6.3x7	35	EM71KM4R7E07---T

※ Specifications subject to change without notice.