

H7 series

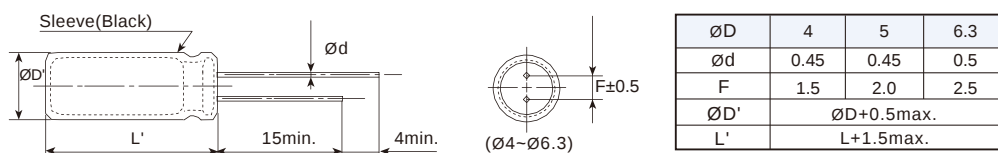
- Miniature series with 7mm height
- Endurance: +105°C 1,000 hours
- Wide temperature range of -40 °C to +105°C
- RoHS Compliant



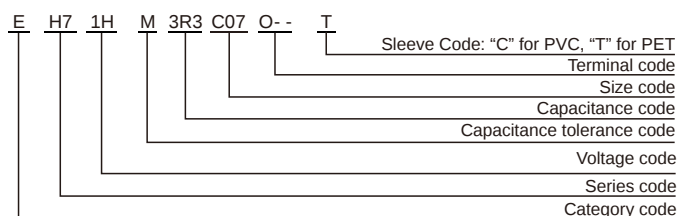
SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40~+105°C							
Rated Voltage Range	6.3~50 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	(at 20°C,120Hz)
	tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	(at 120Hz)
	Z(-25°C)/Z(+20°C)	3		2				
	Z(-40°C)/Z(+20°C)	8	5	4	3			
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 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 500 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]



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	0.94	1.00	1.28	1.39
25 to 35	0.76	1.00	1.27	1.59
50	0.90	1.00	1.40	2.00

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 ΦD×L(mm)	tanδ	Rated ripple current (mA _{rms} /105°C,120Hz)	Part Number
6.3(0J)	22	4×7	0.22	34	EH70JM220C07OT
	33	5×7	0.22	42	EH70JM330D07OT
	47	5×7	0.22	50	EH70JM470D07OT
	100	6.3×7	0.22	77	EH70JM101E07OT
10(1A)	22	5×7	0.19	38	EH71AM220D07OT
	33	5×7	0.19	47	EH71AM330D07OT
	47	6.3×7	0.19	65	EH71AM470E07OT
	100	6.3×7	0.19	87	EH71AM101E07OT
16(1C)	10	4×7	0.16	29	EH71CM100C07OT
	22	5×7	0.16	44	EH71CM220D07OT
	33	6.3×7	0.16	60	EH71CM330E07OT
	47	6.3×7	0.16	70	EH71CM470E07OT
25(1E)	3.3	4×7	0.14	21	EH71EM3R3C07OT
	4.7	4×7	0.14	25	EH71EM4R7C07OT
	10	5×7	0.14	33	EH71EM100D07OT
	22	6.3×7	0.14	51	EH71EM220E07OT
	33	6.3×7	0.14	65	EH71EM330E07OT
35(1V)	3.3	4×7	0.12	23	EH71VM3R3C07OT
	4.7	4×7	0.12	25	EH71VM4R7C07OT
	10	5×7	0.12	36	EH71VM100D07OT
	22	6.3×7	0.12	60	EH71VM220E07OT
50(1H)	0.1	4×7	0.10	1.0	EH71HMR10C07OT
	0.22	4×7	0.10	2.3	EH71HMR22C07OT
	0.33	4×7	0.10	3.5	EH71HMR33C07OT
	0.47	4×7	0.10	5	EH71HMR47C07OT
	1	4×7	0.10	10	EH71HM010C07OT
	2.2	4×7	0.10	19	EH71HM2R2C07OT
	3.3	4×7	0.10	24	EH71HM3R3C07OT
	4.7	5×7	0.10	29	EH71HM4R7D07OT
	10	6.3×7	0.10	44	EH71HM100E07OT
	22	6.3×7	0.10	60	EH71HM220E07OT