

H5 series

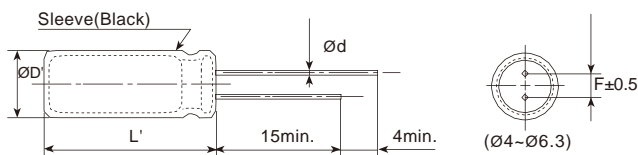
- Low profile with 5mm height
- Wide temperature range of -40 °C to +105°C
- Endurance +105°C 1,000 hours
- RoHS Compliant



SPECIFICATIONS

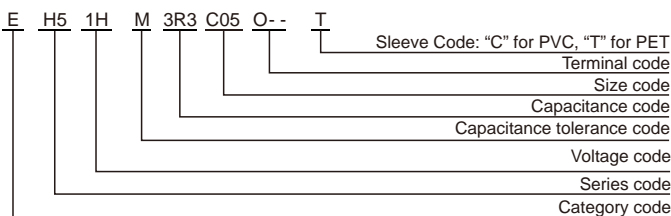
Items	Characteristics								
Category Temperature Range	-40~+105°C								
Rated Voltage Range	6.3~50 V _{dc}								
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)								
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater. Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)								
Dissipation Factor (tan δ)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	(at 20°C, 120Hz)	
	tan δ (max.)	0.28	0.24	0.20	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. (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 500 hours at 105°C without voltage applied.								
	Capacitance Change	±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
Ød	0.45	0.45	0.45
F	1.5	2.0	2.5
ØD'	ØD+0.5max.		
L'	L+1.5max.		

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)	tan	Rated ripple current (mA _{rms} /105°C,120Hz)	Part Number
6.3(0J)	22	4×5	0.28	23	EH50JM220C05OT
	33	5×5	0.28	30	EH50JM330D05OT
	47	5×5	0.28	37	EH50JM470D05OT
	100	6.3×5	0.28	57	EH50JM101E05OT
10(1A)	10	4×5	0.24	20	EH51AM100C05OT
	22	5×5	0.24	28	EH51AM220D05OT
	33	5×5	0.24	34	EH51AM330D05OT
	47	6.3×5	0.24	52	EH51AM470E05OT
16(1C)	4.7	4×5	0.20	15	EH51CM4R7C05OT
	10	4×5	0.20	23	EH51CM100C05OT
	22	5×5	0.20	31	EH51CM220D05OT
	33	6.3×5	0.20	48	EH51CM330E05OT
25(1E)	4.7	4×5	0.14	15	EH51EM4R7C05OT
	10	5×5	0.14	22	EH51EM100D05OT
	22	6.3×5	0.14	44	EH51EM220E05OT
	33	6.3×5	0.14	48	EH51EM330E05OT
35(1V)	3.3	4×5	0.12	13	EH51VM3R3C05OT
	4.7	4×5	0.12	17	EH51VM4R7C05OT
	10	5×5	0.12	24	EH51VM100D05OT
	22	6.3×5	0.12	48	EH51VM220E05OT
50(1H)	0.1	4×5	0.10	1	EH51HMR10C05OT
	0.22	4×5	0.10	2	EH51HMR22C05OT
	0.33	4×5	0.10	3	EH51HMR33C05OT
	0.47	4×5	0.10	4	EH51HMR47C05OT
	1	4×5	0.10	8	EH51HM010C05OT
	2.2	4×5	0.10	13	EH51HM2R2C05OT
	3.3	4×5	0.10	14	EH51HM3R3C05OT
	4.7	5×5	0.10	18	EH51HM4R7D05OT
10	6.3×5	0.10	28	EH51HM100E05OT	