

MH7 CD70H

1000h at 105°C

- Load life of 1000 hours at 105°C
- 7mm Products
- VTR, digital cameras, car radios, micro cassette tape recorder etc

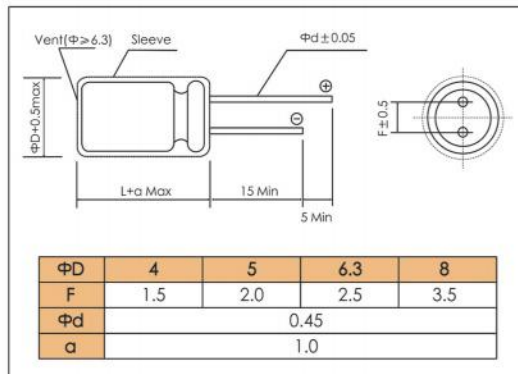


Items	Characteristics						
Operating Temperature Range (°C)	-55 ~ +105						
Capacitance Tolerance (20°C, 120Hz)	± 20%						
Leakage Current (µA)	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 3, whichever is greater. C: Nominal Capacitance (µF) V: Rated Voltage (V)						
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50
	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50
	Impedance Ratio	$Z_{-25°C} / Z_{+20°C}$		3		2	
		$Z_{-40°C} / Z_{+20°C}$		8		5	

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	2000h	13000h	1000h	1000h	500h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 30% of initial value		Within ± 20% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U_R I_R 105°C	U_R $1.2 \times I_R$ 40°C	U_R I_R 105°C	U_R $I_R = 0$ 105°C	$U_R = 0$ $I_R = 0$ 105°C After test: U_R to be applied for 30min >24h before measurement

Dimensions

mm



Frequency Coefficient

Frequency	Rated Voltage (V)			
	50-60Hz	120Hz	1kHz	10k~100kHz
6.3 ~ 16	0.68	0.72	0.92	1.0
25 ~ 35	0.48	0.63	0.80	1.0
50	0.45	0.50	0.70	1.0

Temperature Coefficient

Temperature (°C)	+85	+105
Coefficient	1.35	1

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Ratings for CD 70H Series

U_R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Rated Ripple Current 105°C, 100kHz	Size ΦD x L
(V)	(µF)	(Ω)	(mA rms)	(mm)
6.3 (7.2) 0J	22	13	42	4x7
	33	9	52	5x7
	47	6	64	5x7
	100	3	96	6.3x7
10 (13) 1A	22	11	49	5x7
	33	8	60	5x7
	47	5	95	6.3x7
16 (20) 1C	10	21	39	4x7
	22	10	54	5x7
	33	6	83	6.3x7
25 (32) 1E	47	5	95	6.3x7
	2.2	84	21	4x7
	3.3	56	25	4x7
	4.7	40	47	5x7
35 (44) 1V	10	19	84	6.3x7
	22	8	90	6.3x7
	2.2	72	23	4x7
	3.3	48	25	4x7
50 (63) 1H	4.7	34	48	5x7
	10	16	90	6.3x7
	0.1	1327.0	6	4x7
	0.22	603.2	8	4x7
	0.33	402.1	10	4x7
	0.47	282.3	12	4x7
	1	132.7	16	4x7
	2.2	60.3	25	4x7
	3.3	40.2	28	4x7
	4.7	28.2	48	5x7
10	13.3	75	6.3x7	

Lifetime Diagram

