

Aluminum Electrolytic Capacitor

JH series

- Miniature HE series, long-life products.
- Load life:10000~12000hours.
- Suitable for electronic ballast for lighting equipment,
- long-life power input with smooth function.
- RoHS Compliance
- HE系列的小型化長壽命品。
- 保證壽命10000~12000hours.
- 適用於照明設備電子整流器，長壽命電源輸入平滑用等。

SPECIFICATIONS

Items 項目	Characteristics 特性						
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz, 20℃)						
Operating Temperature Range 適用溫度範圍	- 40 ~ +105℃			- 25 ~ +105℃			
Rated Voltage Range 額定電壓範圍	160 ~ 400VDC			450VDC			
Leakage Current 洩漏電流	I ≤ 0.04CV+100uA which is greater.(After 1minutes application of DC rated voltage, at 20 ℃)						
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency:120Hz. Temperature: 20℃						
	Rated Voltage(V)	160	200	250	350	400	450
	tanδ(MAX)	0.20	0.20	0.20	0.24	0.24	0.24
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF						
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency:120Hz						
	Rated Voltage(V)	160	200	250	350	400	450
	Z(-25℃) / Z(20℃)	3	3	3	5	5	6
	Z(-40℃) / Z(20℃)	8	8	8	10	10	—
Load Life 負荷壽命	12,000 hours, with application of rated voltage at 105℃.(L≤20mm,10,000hrs)						
	Capacitance Change		within ±20% of Initial Value				
	tan δ		200% or less of Initial Specified alue				
	Leakage Current		Initial Specified alue or less				
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to ℃ after exposing them for 1,000hours 105℃ without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.						
	Capacitance Change		within ±20% of Initial Value				
	tan δ		200% or less of Initial Specified alue				
	Leakage Current		Initial Specified alue or less				
Standards 參照標準	JIS C 5101-4 (IEC 60384)						

Frequency Coefficient of Permissible Ripple Current

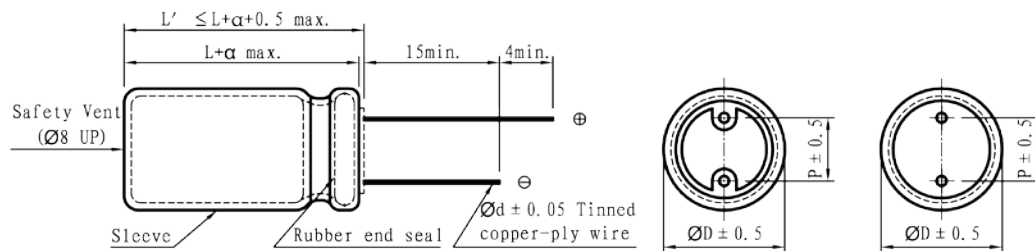
Capacitance (μF)	Frequency (Hz)			
	120	1K	10K	100K
6.8~82	1.00	1.75	2.25	2.50
100~680	1.00	1.67	2.05	2.25

The endurance of capacitors is reduced 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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DIMENSIONS(mm)



ϕD	10	13	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6	0.6	0.8	0.8

α	(L < 16) 1.0
	(L > 16) 2.0

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

Cap (μF)	V (Code)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
6.8										10x16	130	10x16	100
10										10x16	140	10x20	130
12								10x16	150	10x20	165	10x20	145
15								10x20	170	10x20	180	10x25	175
22				10x16	210	10x16	210	10x20	215	10x30	260	13x25	285
33	10x16	230		10x20	290	10x20	290	13x21	330	13x25	365	16x22	365
47	10x20	285		10x20	340	13x21	465	13x25	485	16x22	495	16x26	475
56	10x20	300		10x25	395	13x21	490	16x22	530	16x26	555	18x26	530
68	13x21	500		13x21	520	13x25	550	16x26	630	16x26	600	16x36	625
82	13x21	580		13x25	610	16x22	655	18x26	720	18x26	720	18x32	695
100	13x21	610		16x22	655	16x22	680	18x26	750	18x32	830	18x35	790
120	13x25	720		16x22	760	16x26	800	18x32	890	18x35	890	18x40	885
150	16x22	900		18x22	865	18x26	920	18x35	1020	18x40	980		
180	16x22	950		18x22	865	18x26	990	18x40	1140	18x45	1050		
220	18x22	1050		18x26	1125	18x32	1100	18x45	1235				
270	18x26	1170		18x32	1340	18x35	1380						
330	18x26	1370		18x32	1480	18x40	1450						
390	18x32	1610		18x35	1600								
470	18x35	1825		18x40	1760								
560	18x40	2025											
680	18x45	2185											

※13mm may be replaced by 12.5mm upon customer's request.