

## HJ Snap-in Terminal Type, Miniaturized Series



Miniaturized



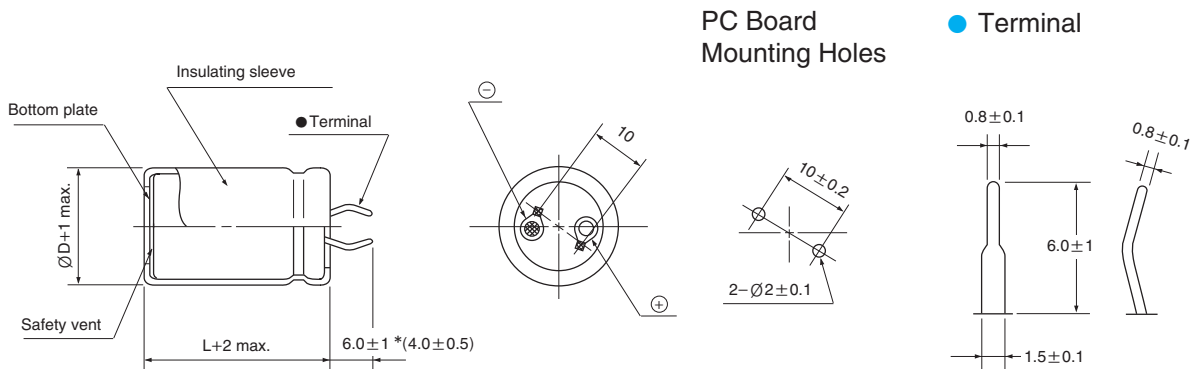
- Smaller case sizes than HC series
- High voltage, high capacitance series
- Load life of 3000 hours at 85°C
- Voltage range of 160 ~ 450V
- Complied to the RoHS directive



Item	Characteristics													
<b>Operating temperature range</b>	WV < 350 : -40 ~ +85°C, WV ≥ 350 : -25 ~ +85°C													
<b>Capacitance tolerance</b>	±20% at 120Hz, 20°C													
<b>Leakage current max.</b>	$I = 3\sqrt{CV}$ (µA) (after 5 minutes)													
<b>Dissipation factor max. (at 120Hz, 20°C)</b>	Capacitance > 1000µF : tanδ increases by 0.01 for each 1000µF from below value.													
	<table border="1"> <thead> <tr> <th>WV</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table>	WV	160	200	250	350	400	450	tanδ	0.15	0.15	0.15	0.15	0.15
WV	160	200	250	350	400	450								
tanδ	0.15	0.15	0.15	0.15	0.15	0.20								
<b>Load life (after application of the rated voltage for 3000 hours at 85°C)</b>	Leakage current	Less than specified value												
	Capacitance change	Within ±20% of initial value												
	tanδ	Less than 200% of specified value												
<b>Shelf life (at 85°C)</b>	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C 6503 clause 5.1.													

### ● DRAWING

Unit : mm



\* Shorter terminal (4.0 ± 0.5) is also available upon request.  
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

### ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV \ Frequency	60Hz	120Hz	300Hz	1kHz	10kHz ≤
160 ~ 250	0.85	1.00	1.20	1.25	1.45
300 ~	0.85	1.00	1.15	1.20	1.40

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

**HJ** series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF / ØD	160				200				250			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
150									22×20 0.83			
180					22×20 0.91				22×20 0.91			
220					22×20 1.01				22×25 1.09	25.4×20 1.11		
270	22×20 1.12				22×25 1.20	25.4×20 1.23			22×25 1.20	25.4×25 1.32		
330	22×25 1.33	25.4×20 1.36			22×25 1.33	25.4×20 1.36			22×30 1.42	25.4×25 1.46	30×20 1.49	
390	22×25 1.45	25.4×20 1.48			22×25 1.45	25.4×25 1.59	30×20 1.62		22×35 1.63	25.4×30 1.69	30×25 1.73	35×20 1.77
470	22×30 1.69	25.4×25 1.75			22×30 1.69	25.4×25 1.75	30×20 1.78		22×35 1.79	25.4×35 1.96	30×25 1.90	35×20 1.94
560	22×30 1.85	25.4×25 1.91	30×20 1.94		22×35 1.96	25.4×30 2.03	30×25 2.08	35×20 2.12	22×40 2.06	25.4×35 2.14	30×25 2.08	35×25 2.25
680	22×35 2.16	25.4×30 2.23	30×25 2.29	35×20 2.33	22×40 2.27	25.4×30 2.23	30×25 2.29	35×25 2.33	22×50 2.49	25.4×40 2.48	30×30 2.43	35×25 2.48
820	22×40 2.50	25.4×30 2.45	30×25 2.52	35×20 2.56	22×45 2.61	25.4×35 2.59	30×30 2.67	35×25 2.73		25.4×45 2.85	30×35 2.81	35×30 2.88
1000	22×45 2.89	25.4×35 2.86	30×30 2.95	35×25 3.01	22×50 3.01	25.4×40 3.01	30×35 3.11	35×30 3.18			30×40 3.26	35×35 3.35
1200	22×50 3.09	25.4×40 3.08	30×30 3.02	35×25 3.08		25.4×45 3.23	30×35 3.18	35×30 3.26			30×45 3.49	35×35 3.43
1500		25.4×45 3.61	30×35 3.56	35×30 3.65			30×45 3.90	35×35 3.83				35×40 4.01
1800			30×40 4.09	35×35 4.20			30×50 4.44	35×40 4.39				35×50 4.76
2200			30×50 4.63	35×40 4.58				35×45 4.77				
2700				35×45 5.29								
3300				35×50 5.77								

WV μF / ØD	350				400				450			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
56									22×20 0.51			
68					22×20 0.56				22×20 0.56			
82					22×20 0.62				22×25 0.66	25.4×20 0.68		
100	22×20 0.68				22×25 0.73	25.4×20 0.75			22×25 0.73	25.4×25 0.81		
120	22×25 0.80	25.4×20 0.82			22×25 0.80	25.4×20 0.82			22×30 0.86	25.4×25 0.88	30×20 0.90	
150	22×25 0.90	25.4×25 0.92			22×30 0.90	25.4×25 0.99	30×20 1.01		22×35 1.01	25.4×30 1.05	30×25 1.08	35×20 1.10
180	22×30 1.05	25.4×25 1.08			22×30 1.05	25.4×25 1.08	30×25 1.10		22×35 1.11	25.4×35 1.21	30×25 1.18	35×20 1.20
220	22×30 1.16	25.4×30 1.19	30×25 1.22		22×35 1.23	25.4×30 1.27	30×25 1.30	35×20 1.33	22×40 1.29	25.4×35 1.34	30×25 1.30	35×25 1.41
270	22×35 1.36	25.4×30 1.41	30×25 1.44	35×20 1.47	22×40 1.43	25.4×35 1.49	30×30 1.44	35×25 1.47	22×50 1.57	25.4×40 1.56	30×30 1.53	35×25 1.56
330	22×45 1.58	25.4×35 1.56	30×30 1.60	35×25 1.62	22×50 1.66	25.4×40 1.64	30×30 1.69	35×25 1.73		25.4×45 1.81	30×35 1.78	35×30 1.83
390	22×50 1.80	25.4×40 1.79	30×30 1.84	35×25 1.88		25.4×45 1.88	30×35 1.94	35×30 1.99			30×40 2.03	35×35 2.09
470		25.4×45 2.06	30×35 2.02	35×30 2.06		25.4×50 2.16	30×40 2.23	35×30 2.18			30×45 2.33	35×35 2.29
560		25.4×50 2.46	30×40 2.32	35×35 2.38			30×45 2.55	35×35 2.50				35×40 2.62
680			30×45 2.69	35×35 2.76			30×50 2.92	35×40 2.89				35×50 3.13
820				35×40 3.17				35×50 3.31	← Case size ØD×L (mm) ← Ripple current (Arms) at 85°C, 120Hz			
1000				35×45 3.65								