

Aluminum Electrolytic Capacitors

HS Series – High Temperature PCB Snap-In Terminal Type 105°C



Specifications

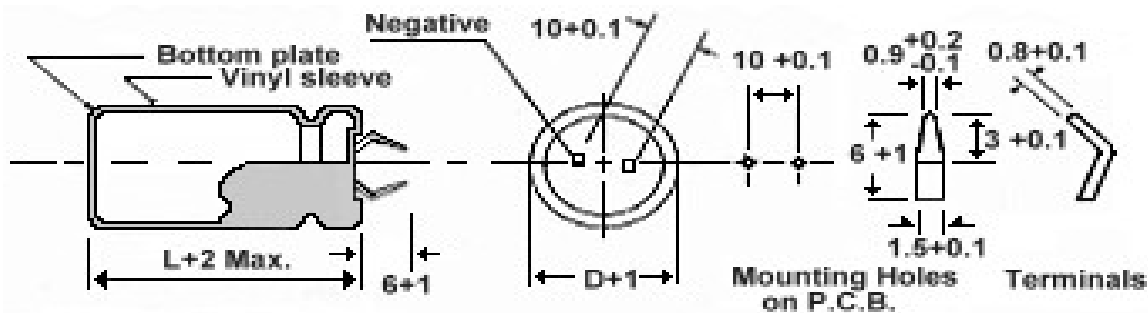
Item	Performance																																										
Operating Temperature Range	-40 to +105° c	-25 to +105° c																																									
Rated Working Voltage Range	10 - 100v.DC	160 - 450v.DC																																									
Nominal Capacitance Range	560 - 68000μ F	56 - 2700μ F																																									
Capacitance Tolerance	± 20% (at +25° c , 120Hz)																																										
Leakage Current	I ≤ 0.03CV, after 5 minutes application of rated voltage.																																										
Dissipation Factor (tan δ) (120Hz \ +25° c)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="background-color: #e0e0e0;">Rated Vol.</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160-250</td> <td>315-450</td> </tr> <tr> <td style="background-color: #e0e0e0;">tan δ max</td> <td>0.55</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.25</td> <td>0.20</td> <td>0.20</td> <td>0.15</td> <td>0.20</td> </tr> </table>										Rated Vol.	10	16	25	35	50	63	80	100	160-250	315-450	tan δ max	0.55	0.45	0.35	0.30	0.25	0.25	0.20	0.20	0.15	0.20											
	Rated Vol.	10	16	25	35	50	63	80	100	160-250	315-450																																
tan δ max	0.55	0.45	0.35	0.30	0.25	0.25	0.20	0.20	0.15	0.20																																	
When rated capacitance is over 1000uF, tan δ shall be added 0.02 per each 1000 μ F increase.																																											
Characteristics at low temperature (stability at 120 Hz)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="background-color: #e0e0e0;">Rated Voltage V</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>60-100</td> <td>160-250</td> <td>315-450</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">-25°c/+25° c</td> <td>8</td> <td>6</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> <td>4</td> <td>6</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">-40c/+25° c</td> <td>15</td> <td>15</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>-</td> <td>-</td> <td colspan="2"></td> </tr> </table>										Rated Voltage V	10	16	25	35	50	60-100	160-250	315-450			-25°c/+25° c	8	6	6	6	4	3	4	6			-40c/+25° c	15	15	15	10	8	6	-	-		
	Rated Voltage V	10	16	25	35	50	60-100	160-250	315-450																																		
	-25°c/+25° c	8	6	6	6	4	3	4	6																																		
-40c/+25° c	15	15	15	10	8	6	-	-																																			
Load life	After 2000hrs. application of DC rated working voltage at +105° c, The capacitor shall meet the following limits:																																										
	Leakage current					≤ the initial specified value																																					
	Capacitance change					≤ ±20% of initial measured value																																					
	Dissipation Factor(tan δ)					≤ 200% of initial specified value																																					
Shelf Life	After storage for 1000hrs. at +105° c with no voltage applied, pre-treatment for measurements shall be conducted after application of DC rated voltage for 60 minutes, the capacitors shall meet the same limits as high temperature loading.																																										

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Diagram of Dimensions



Case Size

Max ripple current: mA rms at 105°C. 120Hz

W.V	10								16							
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
6800									22x25	1.75						
8200									22x25	1.90						
10000	22x25	1.77							22x30	2.10	25x25	2.05				
12000	22x30	2.10							22x35	2.31	25x30	2.30	30x25	2.30		
15000	22x30	2.23	25x25	1.96					22x40	2.68	25x35	2.58	30x25	2.45		
18000	22x35	2.41	25x30	2.34					22x45	2.87	25x40	3.16	30x30	2.98	35x25	2.92
22000	22x40	2.58	25x35	2.54	30x25	2.40					25x45	3.36	30x35	3.30	35x25	3.23
27000	22x50	3.17	25x40	3.07	30x30	2.95	35x25	2.73			25x50	3.85	30x40	3.80	35x30	3.55
33000			25x45	3.39	30x35	3.33	35x30	3.21					30x45	4.30	35x35	4.27
39000			25x50	3.68	30x40	3.70	35x30	3.43					30x50	4.81	35x40	4.80
47000					30x45	4.22	35x35	3.76							35x45	5.53
56000					30x50	4.68	35x40	4.67								
68000							35x50	5.46								

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W.V	25								35							
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
3300									22x25	1.45						
3900									22x30	1.69						
4700	22x25	1.61							22x35	2.02	25x25	1.62				
5600	22x30	1.80							22x35	2.13	25x30	2.00	30x25	1.99		
6800	22x35	2.09	25x25	1.87					22x40	2.41	25x35	2.31	30x25	2.31		
8200	22x40	2.31	25x30	2.34	30x25	2.16			22x50	2.85	25x40	2.73	30x30	2.75	35x25	2.75
10000	22x45	2.65	25x35	2.61	30x30	2.61					25x45	3.05	30x35	3.05	35x30	2.91
12000	22x45	2.80	25x40	2.81	30x30	2.74	35x25	2.74			25x50	3.37	30x40	3.23	35x30	3.19
15000			25x45	3.27	30x35	3.13	35x30	3.26					30x45	3.72	35x35	3.67
18000			25x50	3.54	30x45	3.56	35x30	3.84							35x40	4.37
22000					30x50	4.04	35x35	3.75							35x50	4.92
27000							35x45	4.47								
33000							35x50	5.50								

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W.V	50								63							
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1200									22x25	1.20						
1500									22x30	1.47						
1800	22x25	1.34							22x30	1.58	25x25	1.52				
2200	22x30	1.60							22x35	1.82	25x30	1.75				
2700	22x30	1.70	25x25	1.70					22x40	2.07	25x35	2.11	30x25	1.72		
3300	22x35	1.97	25x30	1.88					22x50	2.29	25x40	2.27	30x30	2.24	35x25	2.10
3900	22x40	2.22	25x35	2.18	30x25	1.95					25x45	2.54	30x35	2.55	35x25	2.55
4700	22x45	2.43	25x35	2.43	30x30	2.25	35x25	2.48			25x50	2.97	30x40	2.86	35x30	2.86
5600	22x50	2.75	25x40	2.72	30x35	2.76	35x25	2.70					30x50	3.22	35x35	3.22
6800			25x50	3.30	30x40	3.30	35x30	3.25					30x50	3.65	35x40	3.65
8200					30x45	3.60	35x35	3.60							35x45	3.90
10000					30x50	4.05	35x40	4.04							35x50	4.40
12000							35x45	4.56								
15000							35x50	4.77								

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W.V	80								100							
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
560									22x25	1.09						
820	22x25	1.11							22x30	1.32						
1000	22x25	1.19							22x35	1.47	25x25	1.45				
1200	22x30	1.44	25x25	1.39					22x40	1.69	25x30	1.68	30x25	1.68		
1500	22x35	1.59	25x30	1.61					22x45	1.97	25x35	1.98	30x30	1.95	35x25	2.00
1800	22x40	1.80	25x30	1.76	30x25	1.65			22x50	2.23	25x40	2.20	30x35	2.20	35x25	2.45
2200	22x45	2.04	25x35	1.98	30x30	1.98	35x25	2.07			25x45	2.53	30x40	2.86	35x30	2.55
2700	22x50	2.39	25x40	2.35	30x35	2.35	35x25	2.29			25x50	2.82	30x45	3.30	35x35	2.85
3300			25x45	2.64	30x40	2.61	35x30	2.47					30x50	3.60	35x40	3.25
3900			25x50	2.92	30x45	2.82	35x35	2.97							35x45	3.70
4700					30x50	3.34	35x40	3.38							35x50	3.80
5600							35x45	3.80								
6800							35x50	3.90								

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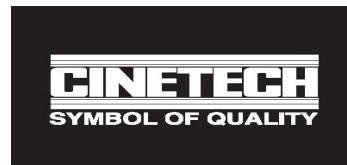
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W.V	160								180							
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
270	22x25	1.09							22x25	0.96						
330	22x25	1.20							22x25	1.03	25x25	1.20				
390	22x30	1.30	25x35	1.28					22x30	1.17	25x25	1.30				
470	22x35	1.40	25x25	1.41					22x35	1.35	25x30	1.40	30x25	1.38		
560	22x40	1.50	25x30	1.51	30x25	1.56			22x40	1.51	25x35	1.53	30x25	1.51		
680	22x45	1.71	25x35	1.70	30x25	1.63			22x45	1.71	25x40	1.74	30x30	1.72	35x25	1.74
820	22x50	1.93	25x40	2.01	30x30	1.91	35x25	1.91	22x50	1.97	25x45	1.97	30x35	2.00	35x25	1.91
1000			25x45	2.20	30x35	2.19	35x25	2.11			25x50	2.23	30x40	2.24	35x30	2.20
1200			25x50	2.45	30x40	2.48	35x30	2.25					30x45	2.52	35x35	2.50
1500					30x45	2.82	35x35	2.62					30x50	2.89	35x40	2.91
1800					30x50	3.13	35x45	3.31							35x45	3.25
2200							35x50	3.77							35x50	3.62

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W.V μF	200								250							
	$\Phi 22$		$\Phi 25$		$\Phi 30$		$\Phi 35$		$\Phi 22$		$\Phi 25$		$\Phi 30$		$\Phi 35$	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
150									22x25	0.72						
180									22x25	0.84						
220	22x25	0.87							22x30	0.97	25x25	0.99				
270	22x25	0.99	25x25	1.09					22x35	1.11	25x30	1.15				
330	22x30	1.20	25x25	1.20					22x40	1.26	25x30	1.26	30x25	1.31		
390	22x35	1.30	25x30	1.34	30x25	1.37			22x45	1.41	25x35	1.42	30x30	1.50	35x25	1.43
470	22x40	1.44	25x30	1.44	30x25	1.48			22x50	1.58	25x40	1.61	30x30	1.61	35x25	1.57
560	22x45	1.60	25x35	1.60	30x30	1.60	35x25	1.56			25x45	1.80	30x35	1.84	35x30	1.79
680	22x50	1.75	25x40	1.76	30x30	1.74	35x25	1.72			25x50	2.03	30x40	2.09	35x35	1.97
820			25x50	2.04	30x35	2.11	35x30	2.10					30x45	2.35	35x40	1.98
1000					30x40	2.40	35x35	2.30					30x50	2.64	35x45	2.30
1200					30x50	2.60	35x40	2.65							35x50	2.43
1500							35x45	3.08								
1800							35x50	3.45								

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W.V	315								350							
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
68									22x25	0.51						
82	22x25	0.64							22x25	0.56						
100	22x30	0.68							22x30	0.69	25x25	0.60				
120	22x30	0.75	25x25	0.76					22x35	0.75	25x25	0.62				
150	22x35	0.82	25x30	0.80	30x25	0.82			22x40	0.82	25x30	0.73	30x25	0.83		
180	22x40	0.91	25x30	0.88	30x25	0.90			22x45	0.92	25x35	0.92	30x25	0.91	35x25	0.94
220	22x45	1.02	25x35	1.02	30x30	1.02	35x25	1.03	22x50	1.05	25x40	1.04	30x30	1.02	35x25	1.04
270	22x50	1.16	25x40	1.15	30x35	1.17	35x25	1.15			25x45	1.18	30x35	1.17	35x30	1.20
330			25x50	1.33	30x35	1.30	35x30	1.32			25x50	1.24	30x40	1.34	35x30	1.33
390					30x40	1.46	35x35	1.47					30x45	1.51	35x35	1.47
470					30x50	1.70	35x40	1.69					30x50	1.75	35x40	1.69
560							35x45	1.90							35x45	1.90
680							35x50	2.15								

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W.V μ F	400								450								
	Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
56										22x25	0.40						
68	22x25	0.51								22x30	0.50	25x25	0.50				
82	22x30	0.58	25x25	0.64						22x35	0.56	25x25	0.55				
100	22x30	0.64	25x25	0.67						22x40	0.64	25x30	0.57	30x25	0.64		
120	22x35	0.72	25x30	0.72	30x25	0.76				22x45	0.72	25x35	0.71	30x25	0.70		
150	22x40	0.82	25x35	0.84	30x25	0.79				22x50	0.79	25x40	0.75	30x30	0.74	35x25	0.75
180	22x50	0.95	25x40	0.94	30x30	0.92	35x25	0.94				25x45	0.84	30x35	0.87	35x30	0.90
220			25x45	1.07	30x35	1.06	35x30	1.08				25x50	0.98	30x40	0.98	35x30	1.00
270			25x50	1.21	30x40	1.21	35x30	1.18						30x45	1.15	35x35	1.17
330					30x45	1.39	35x35	1.35						30x50	1.38	35x40	1.38
390					30x50	1.55	35x40	1.54								35x45	1.55
470							35x45	1.74								35x50	1.72
560							35x50	2.00									