

Aluminum Electrolytic Capacitors

ST Series – Screw Terminal Type 85°C 2000Hrs



Specifications

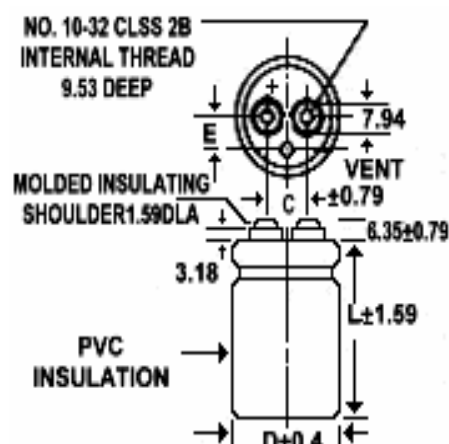
Item	Performance									
Operating Temperature Range	-40 to+85° c						-25 to+85° c			
Rated Working Voltage Range	16 - 100v.DC						160 - 450v.DC			
Nominal Capacitance Range	3300 - 68000μ F						220 - 22000μ F			
Capacitance Tolerance	± 20% (at+20° c ,120Hz)									
Leakage Current	I ≤0.02CV , after 5 minutes application of rated voltage.									
Dissipation Factor (tan δ) (120Hz\+20° c)	Tan δ max (%)									
	VDC	16V	25V	35V	50V	63V	80V	100V	160-250V	350-450V
	35 φ	60	40	30	25	20	20	15	15	2
	51 φ	70	50	50	30	25	2	2	15	2
	63.5 φ	80	70	60	50	0.3	0.25	0.25	0.2	0.25
	76.2 φ	120	80	70	60	0.4	0.3	0.25	0.2	0.25
Characteristics at low temperature (stability at 120 Hz)	Rated Voltage V		Impedance ratio							
	-25°c/+20° c		3 MAX.							
	-40°c/+20° c		12 MAX.							
Load life	After 2000hrs. application of DC rated working voltage with rated ripple current at +85° c, the capacitor shall meet the following limits when capacitors are restored to 20° c :									
	Leakage current					≤ the initial specified value				
	Capacitance change					≤ ±15% of initial measured value				
	Dissipation Factor(tan δ)					≤ 175% of initial specified value				
Shelf Life	After storage for 1000hrs. at +85° 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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CINETECH
SYMBOL OF QUALITY

Diagram of Dimensions



D	35	51	63.5	76.2
C	12.7	22	28.6	31.8

Case Size

Max ripple current: mA rms at 85°C. 120Hz

W.V μF	16		25		35		50	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10000					35x60	3.5	35x60	5.0
15000			35x50	3.8	35x80	5.7	35x80	7.8
22000	35x60	5.1	35x60	6.8	35x100	7.1	35x120	12.8
33000	35x80	6.9	35x80	9.4	35x100	10.2	51x100	13.2
47000	35x100	9.5	35x100	12.5	35x120	13.7	51x100	14.7
68000	51x80	12.7	51x80	14.3	51x100	15.1	51x140	17.8
100000	51x100	13.5	51x100	15.5	51x120	19.2	63.5x140	19.8
150000	51x140	17.6	51x140	24.2	63.5x120	23.8	76.2x140	25.7
220000	63.5x120	20.1	63.5x120	25.8	76.2x140	27.4	76.2x160	32.7
330000	63.5x140	25.2	76.2x120	26.7	76.2x160	35.7		
470000	76.2x140	27.5						
680000	76.2x160	35.1						

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W.V μ F	63		80		100		160	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1000							35x60	2.8
1500							35x60	3.1
2200							35x100	4.7
3300					35x60	4.1	35x120	6.8
4700			35x60	4.0	35x80	5.2	51x80	7.5
6800	35x50	4.3	35x60	5.3	35x80	6.2	51x120	11.5
10000	35x60	6.2	35x80	7.3	35x100	7.9	51x140	13.4
15000	35x80	8.7	35x120	10.3	51x100	12.4	63.5x140	14.8
22000	35x120	13.1	51x80	12.3	51x120	16.2	76.2x140	15.4
33000	51x100	13.9	51x120	16.1	51x140	21.3		
47000	51x120	18.6	63.5x120	18.5	63.5x140	24.3		
68000	63.5x120	21.3	63.5x140	24.1	76.2x140	28.4		

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W.V μ F	200		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
220									35x50	1.0
300							35x60	1.2	35x60	1.2
470					35x60	1.5	35x80	1.6	35x80	1.8
680			35x60	1.8	35x80	2.7	35x100	2.1	35x120	2.3
1000	35x60	2.3	35x80	3.1	35x100	3.2	35x120	2.8	51x80	2.9
1500	35x80	3.2	35x80	3.8	51x80	4.1	51x100	3.8	51x120	3.7
2200	35x100	4.8	35x120	5.3	51x120	6.0	51x140	4.7	63.5x120	4.9
3300	35x120	6.2	51x120	7.5	51x140	7.8	63.5x120	5.8	76.2x120	6.3
4700	51x100	7.8	51x140	9.1	63.5x120	8.0	76.2x120	6.9	76.2x160	8.6
6800	51x140	9.8	63.5x120	9.8	76.2x120	8.9	76.2x160	9.8		
10000	63.5x120	11.2	76.2x140	12.3	76.2x160	12.3				
15000	76.2x140	14.2	76.2x160	15.1						
22000	76.2x160	17.8								