

Aluminum Electrolytic Capacitors

HA Series – Axial Type 105°C 2000Hrs



Specifications

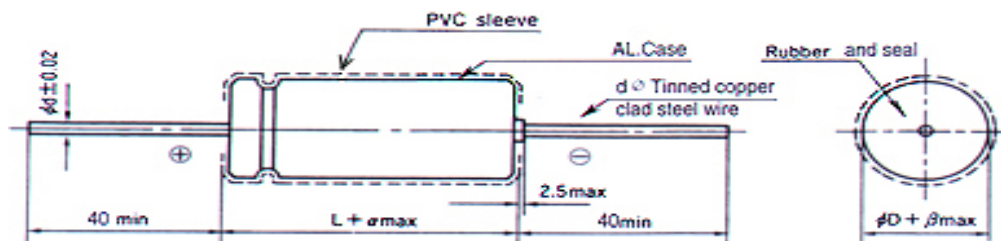
Item	Performance														
Operating Temperature Range	-40 to+105º c							-25 to+105º c							
Rated Working Voltage Range	6.3 - 100v.DC							160 - 400v.DC							
Nominal Capacitance Range	0.47 - 15000µ F							0.47 - 220µ F							
Capacitance Tolerance	± 20% (at+20º c ,120Hz)														
Leakage Current	I ≤ 0.01CV or 3mA max. whichever is greater, after 3 minutes.							I ≤ 0.03CV + 20mA max. whichever is greater, after 3 minutes.							
Dissipation Factor (tan δ) (120Hz\+20º c)	Add 0.02 per 1000uF for more than 1000uF.														
	Rated Vol.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	Tan δ max	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.07	0.15	0.15	0.15	0.20	0.24	0.24
Characteristics at low temperature (stability at 120 Hz)	Add 0.5 per each increase of 1000uF for >1000uF for -25ºc/+20º c. Add 1.0 per another 1000uF for -40ºc/+20º c.														
	Vol	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	-25ºc/+20º c	4	3	2	2	2	2	2	2	3	3	3	6	6	15
	-40ºc/+20º c	8	6	4	3	3	3	3	3	-	-	-	-	-	-
Load life	After 2000hrs. application of DC rated working voltage with rated ripple current at +105º c, the capacitor shall meet the following limits when capacitors are restored to 20º c :														
	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 500hrs. at +105º c with no voltage applied. Post test requirements at 20ºc, the capacitors shall meet the same limits as high temperature loading.														

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CINETECH
SYMBOL OF QUALITY

Diagram of Dimensions



D	6.3	8	10	13	16	18
d	0.6	0.6	0.6	0.6	0.8	0.8

Case Size

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

W.V	6.3		10		16		25		35		50		63		100	
μ F	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47											6.3x13	8			6.3x13	10
1.0											6.3x13	12			6.3x13	15
2.2											6.3x13	17			6.3x13	23
3.3											6.3x13	21			6.3x13	29
4.7											6.3x13	30	6.3x13	32	6.3x13	34
10											6.3x13	46	6.3x13	50	6.3x16	56
22									6.3x13	61	6.3x16	68	6.3x16	82	8x16	96
33							6.3x13	69	6.3x16	75	6.3x16	90	6.3x16	100	8x21	140
47			6.3x13	70	6.3x13	99	6.3x16	82	6.3x16	100	6.3x16	110	8x16	135	8x21	180
100	6.3x13	95	6.3x16	105	6.3x16	125	6.3x16	135	8x16	170	8x16	180	8x21	223	10x27	320
220	6.3x16	160	6.3x16	175	8x16	215	8x16	230	8x21	300	10x22	345	10x27	400	13x32	570
330	8x16	195	8x16	245	8x16	260	8x21	335	10x22	400	10x27	460	13x27	540	13x25	700
470	8x16	270	8x16	290	8x21	370	10x22	440	10x27	520	13x27	610	13x32	700	16x43	880
1000	10x22	460	10x22	550	10x27	640	13x27	770	13x32	920	13x35	1080	16x33	1210	--	--

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W.V μ F	6.3		10		16		25		35		50		63		100	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
2200	13x27	810	13x27	860	13x32	1000	13x35	1170	16x33	1340	18x43	1530	-		-	
3300	13x27	960	13x32	1100	13x35	1300	16x33	1460	16x43	1650	-		-		-	
4700	13x32	1330	13x35	1400	16x33	1600	18x43	1780	-		-		-		-	
6800	16x33	1500	16x33	1690	16x43	1900	-		-		-		-		-	
10000	16x43	1765	16x43	1950	-		-		-		-		-		-	
15000	16x43	2075	-		-		-		-		-		-		-	

W.V μ F	160		200		250		350		400	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	6.3x13	9	6.3x13	9	6.3x13	9	6.3x16	10	6.3x16	9
1.0	6.3x13	12	6.3x13	12	6.3x16	12	8x16	18	8x16	18
2.2	6.3x16	19	6.3x16	19	8x16	21	8x21	30	8x21	30
3.3	8x16	26	8x16	26	8x16	30	10x22	37	10x22	40
4.7	8x16	31	8x16	36	10x22	36	10x27	48	10x27	52
10	10x22	59	10x22	59	10x27	64	13x27	79	13x27	79
22	10x27	95	13x27	95	13x27	110	13x32	130	16x33	145
33	13x27	125	13x32	140	13x32	140	16x33	175	16x43	185
47	13x32	165	13x32	165	13x35	180	18x43	230	-	
100	16x33	270	16x43	285	16x43	310	-		-	
220	18x43	450	-		-		-		-	