

**A32 - 2000H at 105°C Snap-In type Aluminum Electrolytic Capacitor**

**Features**

- 2000hrs at 105°C, High temperature
- Designed for Power supply, low voltage inverter
- RoHS Compliant

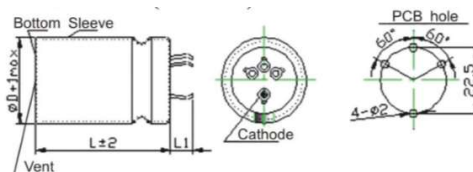
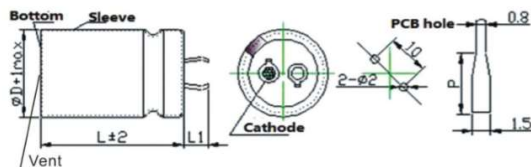
**Specifications**

Item	Performance Characteristics
Operating Temperature Range	(16V~100V) -40~+105°C (160V~450V) -25~+105°C
Rated Voltage Range	16V ~ 450VDC
Nominal Capacitance Range	220uF ~ 47000uF
Normal Capacitance Tolerance	±20% (+20°C, 120Hz)
Leakage Current	$I \leq 0.01CV(\mu A)$ or 1.5mA, whichever is the smaller, 5 minutes test @20°C $I$ =Leakage Current ( $\mu A$ ) $C$ =Rated Capacitance ( $\mu F$ ) $V$ =Rated Voltage (V)
Dissipation Factor (MAX)	0.15 (+20°C, 120Hz)
Temperature characteristics (120Hz)	$C(-25^\circ C) / C(+20^\circ C) \geq 0.6$
Insulating resistance	The value measured by applying DC 500V insulation resistance tester between all terminals and snap ring with insulating sleeve $\geq 100M\Omega$
Insulating voltage	Apply AC 2000V between all terminals and snap ring with insulating sleeve for 1 minute and no abnormality appears
Durability	Apply rated ripple current on capacitor with voltage not more than rated voltage under 105°C environment and apply rated voltage for 2000 hours, then recover to 20°C environment and the test results should satisfy the requirements as below. Capacity change rate ( $\Delta C$ ) $\leq$ initial value $\pm 20\%$ DF $\leq 200\%$ of initial specifications value Leakage current $\leq$ initial specification value
High-temperature zero load characteristics	Capacitor kept in 105°C environment for 1000 hours, then tested in 20°C environment and the test result should satisfy the requirements as below. Capacity change rate ( $\Delta C$ ) $\leq$ initial specification value $\pm 15\%$ DF $\leq 150\%$ of initial specification value Leakage current $\leq$ initial specification value (Voltage pretreatment should be done before test: apply rated voltage on both ends of capacitor through a resistor of about 1000 $\Omega$ for 1 Hrs, then discharge electricity through 1 $\Omega/V$ resistor after pretreatment. Place capacitor under normal temperature for 24hrs after total discharging, then starts test.

**Diagram of Dimensions**

Terminal code T2 ( $\Phi 22-\Phi 45$ ): Standard

Terminal code T4 ( $\Phi 22-\Phi 45$ )



**Frequency correction coefficient of rated ripple current**

Frequency(Hz)	50	120	500	1K	$\geq 10K$
Coefficient	0.80	1.00	1.20	1.25	1.40

**Temperature correction coefficient of rated ripple current**

Temperature (°C)	40	60	85	105
Coefficient	2.70	2.20	1.70	1.00

**Standard Size**

Rated Voltage (Vdc)	16V			25V			35V			50V		
Capacitance (µF)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)
2200										22 x 30	1.42	176.52
3300							22 x 25	1.37	138.62	22 x 35	1.96	119.85
										25 x 30	2	119.92
3900							22 x 30	1.62	16.23	22 x 40	2.2	97.63
										25 x 35	2.24	97.76
										30 x 25	2.28	97.82
4700				22 x 25	1.52	112.45	25 x 25	1.72	96.52	22 x 45	2.56	82.41
										30 x 30	2.6	82.52
										35 x 25	2.64	82.59
5600							22 x 35	1.98	81.36	22 x 50	2.82	68.65
							25 x 30	2.06	81.39	25 x 40	2.86	68.71
							30 x 25	2.12	81.43	30 x 35	2.9	68.78
6800	22 x 25	1.53	96.3	22 x 30	1.86	76.35	22 x 40	2.26	65.42	25 x 50	3.28	56.54
				25 x 25	1.9	76.39	25 x 35	2.3	65.48	30 x 40	3.32	56.62
										35 x 30	3.36	56.69
10000	22 x 30	1.92	65.3	22 x 40	2.38	52.31	25 x 45	2.86	42.51	30 x 50	4.02	38.45
	25 x 25	1.98	65.8	25 x 35	2.42	52.36	30 x 35	2.9	42.58	35 x 40	4.08	38.52
12000	22 x 35	2.32	54.23	22 x 45	2.66	42.23	25 x 50	3.22	37.62	35 x 45	4.46	31.25
	25 x 30	2.36	54.32	25 x 40	2.7	42.26	30 x 40	2.28	37.69			
	30 x 25	2.4	54.36	30 x 30	2.74	42.31	35 x 30	2.32	37.76			
				35 x 25	2.9	42.36						
15000	22 x 40	2.58	42.3	25 x 45	3.14	34.53	30 x 45	3.66	28.52			
	25 x 35	2.62	42.6	30 x 35	3.18	34.57	35 x 35	3.72	28.58			
				35 x 30	3.22	34.63						
22000	25 x 45	3.32	29.23	30 x 45	3.98	22.56	35 x 50	4.88	19.58			
	30 x 35	3.38	29.35	35 x 35	4.04	22.62						
33000	30 x 45	4.22	19.23	35 x 50	5.36	15.62						
	35 x 35	4.26	19.32									
47000	35 x 45	5.24	13.45									

Rated Voltage (Vdc)	63V			80V			100V			160V		
Capacitance (µF)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)
330										22 x 25	1.14	601.23
470										22 x 35	1.51	421.54
										25 x 25	1.56	421.59
680										22 x 45	1.72	291.35
										25 x 35	1.76	291.39
										30 x 25	1.8	291.46
1000				22 x 25	1.22	265.54	22 x 35	1.48	253.65	25 x 45	2.06	196.54
							25 x 30	1.54	253.71	30 x 35	2.1	196.62
1200	22 x 25	1.22	218.52	22 x 30	1.32	219.85	22 x 40	1.68	219.54	25 x 50	2.18	164.36
				25 x 25	1.38	219.92	25 x 35	1.72	219.59	30 x 40	2.24	164.39
							30 x 25	1.76	219.65	35 x 30	2.3	164.43
2200	22 x 35	1.72	119.65	22 x 45	2.04	119.58	25 x 50	2.48	119.84	35 x 50	3	89.45
	25 x 30	1.76	119.68	25 x 35	2.08	119.61	30 x 40	2.52	119.91			
				30 x 30	2.12	119.69	35 x 30	2.58	119.98			
				30 x 25	2.16	119.74						
3300	22 x 50	2.22	76.54	25 x 50	2.7	75.68	30 x 50	3.28	75.46			
	25 x 40	2.26	76.58	30 x 40	2.74	75.74	35 x 40	3.32	75.51			
	30 x 30	2.3	76.62	35 x 30	2.78	75.81						
	35 x 25	2.36	76.66									
4700	25 x 50	2.82	52.46	30 x 50	3.48	56.41	35 x 50	4.12	54.62			
	30 x 40	2.86	52.52									
	35 x 30	2.9	52.59									
5600	30 x 45	3.22	45.63	35 x 45	3.82	45.68						
	35 x 35	3.26	45.71									
6800	30 x 50	3.66	35.68	35 x 50	4.16	38.47						
	35 x 40	3.7	35.75									
10000	35 x 50	4.66	25.45									

Rated Voltage (Vdc)	200V			250V			400V			450V			
	Capacitance (µF)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)	DxL (mm)	Ripple Current (Arms)	Impedance (Max, mΩ)
220		22 x 25	1.06	903.23	22 x 30	1.12	902.45	22 x 45	1.18	878.32	22 x 55	0.92	895.56
					25 x 25	1.16	902.51	25 x 35	1.12	878.23	25 x 45	0.88	895.45
								30 x 30	1.06	878.12	30 x 30	0.84	895.35
330		22 x 30	1.3	601.23	22 x 40	1.2	601.56	22 x 60	1.58	577.65	25 x 55	1.24	598.65
		25 x 25	1.34	601.26	25 x 30	1.26	601.61	25 x 50	1.56	577.56	30 x 40	1.22	598.56
					30 x 25	1.3	601.68	30 x 35	1.54	577.45	35 x 35	1.2	598.45
390		22 x 35	1.36	509.45	22 x 45	1.26	606.51	22 x 70	1.72	487.52	30 x 50	1.46	502.56
					25 x 35	1.3	606.56	25 x 55	1.7	487.45	35 x 40	1.44	502.45
								30 x 40	1.68	487.34	40 x 30	1.42	502.35
470		22 x 40	1.4	419.56	22 x 50	1.38	421.12	25 x 65	1.96	405.56	30 x 55	1.68	423.56
		25 x 30	1.46	419.62	25 x 40	1.42	421.16	30 x 50	1.94	405.42	35 x 45	1.66	423.45
		30 x 25	1.48	419.68	30 x 30	1.46	421.21	35 x 40	1.92	405.32	40 x 35	1.64	423.35
					35 x 25	1.5	421.27						
560		22 x 45	1.58	352.12	25 x 45	1.52	352.23	30 x 55	2.14	354.21	30 x 60	1.89	372.68
		25 x 35	1.62	352.16	30 x 35	1.56	352.27	35 x 45	2.12	354.15	35 x 50	1.87	372.58
					35 x 30	1.6	352.31	40 x 35	2.1	254.01	40 x 40	1.85	372.47
680		22 x 50	1.72	284.56	25 x 50	1.66	291.42	30 x 65	2.36	265.36	35 x 55	2.04	287.54
		25 x 40	1.76	284.61	30 x 40	1.7	291.46	35 x 50	2.34	265.23	40 x 45	2.02	287.42
		30 x 30	1.8	284.69				40 x 40	2.32	265.12	45 x 40	2	287.32
		35 x 25	1.84	284.73									
1000		30 x 45	2.16	196.56	30 x 50	1.88	196.56	35 x 65	2.82	212.32	40 x 60	2.51	235.25
		35 x 35	2.2	196.62	35 x 40	1.92	196.61	40 x 50	2.8	212.23	45 x 55	2.49	235.23
								45 x 45	2.78	212.14			
1200		30 x 50	2.32	162.54	35 x 45	2.1	162.52	40 x 60	3.04	198.56	40 x 70	2.72	206.63
		35 x 40	2.36	162.61				45 x 50	3.02	198.56	45 x 60	2.7	206.52
1500		35 x 45	2.56	131.23				40 x 70	3.22	156.56	40 x 80	2.94	174.56
								45 x 60	3.2	156.45	45 x 70	2.92	174.45

Arms Rated ripple current (105°C, 120kHz)

Customer products are available on request.