

Axial Aluminum Electrolytic Capacitor – JAH

FEATURES

- 105°C, 1000 hours assured
- Voltage range of 6.3 ~ 450V
- Wide operating temperature range, from -40°C ~ +105°C



SPECIFICATIONS

Operating Temperature Range (°C) -40°C ~ +105°C
 Capacitance Tolerance (20°C, 120Hz) ±10%(K), ±20%(M)
 Voltage Range 6.3 ~ 100VDC, 160 ~ 450VDC
 Leakage Current (mA) $I \leq 0.02CV$ or 3 (uA) Whichever is greater (after 2 minutes applying the rated DC working Voltage at 20 °C)
 $I \leq 0.03CV + 15$ (uA) for $CV \leq 1000$, $I \leq 0.02CV + 25$ (uA) for $CV > 1000$
 (after 5 minutes applying the rated DC working Voltage at 20 °C)
 Where: I = Leakage Current (uA) , C = rated Capacitance (µF) , V = working Voltage (V)

(at 20°C, 120Hz) Dissipation Factor (tanδ)

W.V	6.3	10	16	25	35	50	63
tan δ	0.23	0.20	0.17	0.15	0.12	0.10	0.09
W.V	100	160	200	250	350	400	450
tan δ	0.08	0.15	0.15	0.20	0.20	0.24	0.24

(20°C) Surge Voltage

W.V	6.3	10	16	25	35	50	63
S.V	8	13	20	32	44	63	79
W.V	100	160	200	250	350	400	450
S.V	125	200	250	300	400	450	500

Low Temperature Stability Impedance ratio at 120HZ

Rated Voltage (V)		6.3	10	16	25	35	50	63
Z(-25°C)	φ D < 16	6	4	3	3	2	2	2
/+20°C	φ D ≥ 16	8	6	4	4	3	3	3
Z(-40°C)	φ D < 16	10	8	6	6	4	3	3
/+20°C	φ D ≥ 16	18	16	12	10	8	8	6
Rated Voltage (V)		100	160	200	250	350	400	450
Z(-25°C)	φ D < 16	2	3	6	8	12	14	16
/+20°C	φ D ≥ 16	3						
Z(-40°C)	φ D < 16	3	4	8	10	-	-	-
/+20°C	φ D ≥ 16	6						

Load Life Test After 1,000 hours application of rated voltage at 105°C, capacitors meet the characteristics requirements listed as below .

Capacitance Change	Within ±20% of initial value
Dissipation Factor	Less than 200% of specified value
Leakage Current	Within specified value

Shelf Life Test After leaving capacitors under no load at 105°C for 1,000 hours and applying Voltage they meet the specified value for load life characteristics listed above.

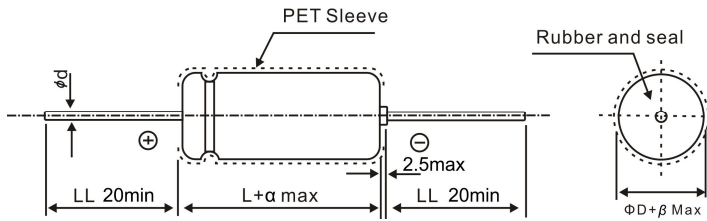
Freq. (Hz)	Cap. (µF)				
	60	120	500	1K	10K up
Under 100	0.70	1.00	1.30	1.40	1.50
100 to 1000	0.75	1.00	1.20	1.30	1.35
1000 up above	0.80	1.00	1.10	1.12	1.15

Temperature(°C)	Under 50	70	85	105
Multiplier	1.95	1.78	1.40	1.00

Please visit our website to get more update data, those data & specification are subject to change without notice.

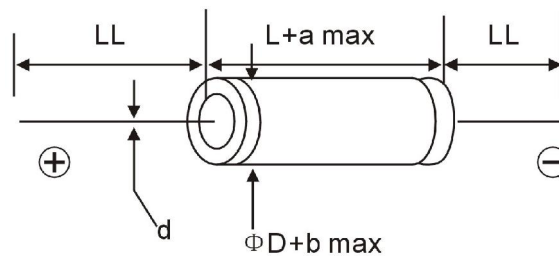
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DIMENSIONS (mm)



Lead Diameter

∅D	5	6.3	8	10	13	16	18	22	25
∅d	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
α	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
β	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0



DIMENSIONS: Diameter (D∅) x Length (L) mm

RIPPLE CURRENT. mA at 85°C, 120Hz

V.DC	25V		35V		63V		100V		160V	
µF	∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA	∅DxL	mA
3.3	--	--	--	--	--	--	--	--	8x16	33
4.7	--	--	--	--	--	--	--	--	8x16	39
10	--	--	--	--	--	--	--	--	10x16	60
22	--	--	--	--	--	--	8x16	120	--	--
33	--	--	--	--	8x16	130	10x20	150	--	--
47	--	--	--	--	8x16	160	10x20	190	--	--
100	--	--	8x16	210	8x20	260	13x26	340	--	--
220	8x16	280	10x16	240	13x26	480	16x30	560	--	--
330	10x16	380	10x20	460	13x26	650	16x30	750	--	--
470	10x16	510	10x25	610	16x30	840	19x40	970	--	--
1000	10x25	900	13x26	1060	16x35	1330	22x40	1540	--	--
2200	16x30	1480	16x30	1580	22x42	2160	--	--	--	--
3300	16x32	1710	18x36	2050	--	--	--	--	--	--
4700	18x36	2170	--	--	--	--	--	--	--	--
6800	22x42	2580	--	--	--	--	--	--	--	--

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