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Datasheet

Aluminium Electrolytic Capacitor

RS Stock number 707-6650

Specifications:

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<tr><td>Operating Temperature Range</td><td>-40 to +105°C</td><td>-25 to +105°C</td></tr>
<tr><td>Rated Voltage Range</td><td>10 to 100 VDC</td><td>160 to 450 VDC</td></tr>
<tr><td>Capacitance Tolerance</td><td colspan="2">+ 20% (120Hz, +20°C)</td></tr>
<tr><td>Leakage Current (at 20°C)</td><td colspan="2">
<table>
<tr><td>10V ~ 100V DC</td><td>160V ~ 450V DC</td></tr>
<tr><td>I ≤ 0.02CV + 3 (μA)</td><td>I ≤ 0.05CV + 4 (μA)</td></tr>
</table>
I: Leakage current (μA)
C: Rated capacitance (μF)
V: Working voltage (V)
After 5 minutes applying the DC working voltage
</td></tr>
<tr><td>Surge Voltage (20°C)</td><td colspan="2">
<table>
<tr><td>W.V</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>60</td><td>100</td><td>160</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr>
<tr><td>S.V</td><td>13</td><td>20</td><td>32</td><td>44</td><td>63</td><td>79</td><td>125</td><td>200</td><td>200</td><td>250</td><td>300</td><td>400</td><td>450</td><td>500</td></tr>
</table>
</td></tr>
<tr><td>Dissipation Factor (120Hz, 20°C)</td><td colspan="2">
<table>
<tr><td>W.V</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr>
<tr><td>Tan δ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
For capacitance > 1000μ F, add 2% per another 1000μ (+20°C at 120Hz)
</td></tr>
</table>

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Specifications:

Item	Performance Characteristics
Temperature Characteristics	Impedance ratio max.

W.V	10	16	25	35	50	63	100	160	200	250	350	400	450
-25°C/+20°C	4	3	3	2	2	2	2	8	8	8	12	15	16
-40°C/+20°C	8	6	4	3	3	3	3	6	6	10	-	-	-

Load Test

After 1000 hours application of W.V at +105°C. The capacitor shall meet the following limits.

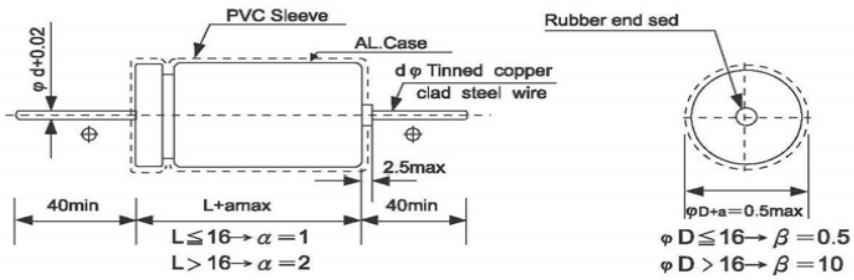
Capacitance Change	≤ ± 20% of initial value
Tanδ	≤ ± 20% of initial specified value
Leakage Current	≤ ± initial specified value

Shelf Test

After 500 hours application of W.V AT +105°C. This capacitor shall meet the following limits.

Capacitance Change	≤ ± 20% of initial value
Tanδ	≤ ± 200% of initial specified value
Leakage Current	≤ ± 200% of initial specified value

Diagram of Dimensions:



Unit (mm)

(Unit: mm)

D	5	6	8	10	13	16	18	20	22	25
φd	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8

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Features:

- Used in communication equipment's, switching power supply, etc.
- Safety vent construction design

Ripple Current & Frequency Multipliers

Freq.(Hz) / Cap.(μF)	50(60)	120	500	1K	10KUP
Under 100	0.70	1.00	1.30	1.40	1.50
100 < C≦1000	0.75	1.00	1.20	1.30	1.35
1000 up above	0.80	1.00	1.10	1.12	1.15

Case Size

Ø D x L (mm)

UF \ WV	10		16		25		35		50		63		100	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
0.47									6*13	8	6*13	8	6*13	10
1									6*13	12	6*13	12	6*13	14
2.2									6*13	18	6*13	20	6*13	22
3.3									6*13	23	6*13	24	6*13	27
4.7									6*13	27	6*13	29	6*13	34
10					6*13	40	6*13	40	6*13	40	6*13	48	8*16	58
22					6*13	48	6*13	59	6*13	62	6*13	81	8*20	100
33			6*13	58	6*13	65	6*13	69	6*13	78	8*16	99	8*20	135
47	6*13	60	6*13	73	6*13	77	6*13	105	8*16	115	8*16	138	10*20	150
100	6*13	98	6*13	90	8*16	140	8*16	205	8*16	252	10*20	280	13*22	300
220	8*16	170	8*16	220	8*16	260	8*16	305	10*20	320	13*22	394	16*28	505
330	8*16	243	8*16	250	10*20	320	10*20	350	13*22	415	13*26	505	16*33	660
470	8*16	315	8*16	320	10*20	420	10*20	510	13*26	640	13*26	705	18*36	875
1000	10*17	450	10*20	600	13*22	720	13*26	820	16*32	955	16*36	1150		
2200	13*22	940	13*22	955	16*28	1050	16*36	1165	18*36	1680	18*36	1750		
3300	13*26	1150	16*32	1340	16*36	1500	18*36	1800	22*42	2080	22*42	2080		
4700	16*28	1400	16*36	1580	18*36	1980	22*42	2100	22*42	2500				

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Case size:

UF / WV	160		200		250		350		400		450	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
0.47												
1							8*16	11	8*16	13	8*16	13
2.2	8*16	16	8*16	16	8*16	21	10*17	26	10*17	30	10*17	30
3.3	8*16	26	8*16	26	10*17	26	10*17	30	10*20	33	10*20	33
4.7	10*20	36	10*20	38	10*20	40	10*20	49	10*20	52	10*20	52
10	10*20	60	10*20	68	10*20	78	13*22	75	13*22	86	13*22	80
22	10*20	78	13*22	92	13*25	92	16*26	80	16*30	92	16*30	91
33	10*20	95	13*22	106	13*25	106	16*26	106	16*30	115	16*30	105
47	13*22	165	13*22	208	16*26	218	16*26	218	16*36	140	18*36	130
100	16*26	400	16*30	410	16*30	415	18*40	250	18*40	165	22*42	155
220	16*30	500	16*36	515	22*42	515						