

Datasheet Aluminium Electrolytic Capacitor

RS Stock number 711-2157



Specifications:

ltem	Performance Characteristics														
Operating Temperature Range	-40 to +105°C							-25 to +105°C							
Rated Voltage Range	6.3 to 100 VDC							160 to 450 VDC							
Capacitance Tolerance	<u>+</u> 20% (120Hz, +20°C)														
Leakage Current (at 20°C, max.)		I < 0.01 CV or 3 (μA). After 1 minute whichever is greater measured with rated working voltage applied. I < 0.03 CV or 3 (μA). After 1 minute with rated working voltage applied.													
Dissipation Factor (120Hz, 20°C)	Working voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	D.F (%) Max.	23	20	16	14	12	10	10	10	15	15	16	20	20	20
	For capacita	For capacitance > 1000 μ F, add 2% per another 1000 μ (+20°C at 120Hz)													

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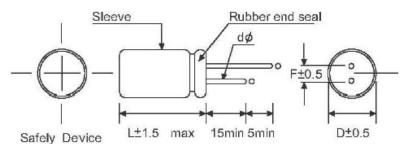
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Specifications:

Performance Characteristics Item Impedance ratio max. Low Temperature W.V 6.3 10 16 25 35 50 63 100 160 200 250 350 400 450 Characteristics (VDC) (at 120Hz) 3 2 2 2 2 3 5 Z-4 2 2 3 3 6 15 25°C/+20°C Z-9 6 4 3 3 4 3 3 _ _ _ _ 40°C/+20°C For capacitance value 1000μ F, add 0.5 per another 1000μ F for $-25^{\circ}C/+20^{\circ}C$ For capacitance value 1000μ F, add 1 per another 1000μ F for -40° C/+ 20° C Load Life **Test Conditions:** Duration time: 2000hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements: +20°C After test requirements: < <u>+</u> 20% of initial measured value Dissipation Factor: <a> 200% of the initial specified value Leakage Current: < the initial specified value Shelf Life Test Conditions: Duration time: 1000hrs Ambient temperature: +105°C Applied Voltage: None After test requirements at +20°C: Same limits as load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.

Diagram of Dimensions:



(Unit: mm) 8 10 13 16 18 22 25 D 5 6 F 2.0 2.5 3.5 5.0 5.0 7.5 7.5 10 12 0.5 0.6 0.8 φd 1.0

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Features:

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

Ripple Current & Temperature

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

Ripple Current & Frequency Multipliers

CAP (µF)/Hz	50 (60)	120	400	1K	10K	50 – 100K
CAP <u><</u> 10	0.8	1.0	1.30	1.45	1.65	1.70
10< CAP <u><</u> 100	0.8	1.0	1.23	1.36	1.48	1.53
100< CAP <u><</u> 1000	0.8	1.0	1.16	1.25	1.35	1.38
1000 <cap< td=""><td>0.8</td><td>1.0</td><td>1.11</td><td>1.18</td><td>1.25</td><td>1.28</td></cap<>	0.8	1.0	1.11	1.18	1.25	1.28



WV {8} 10 25 6.3 {13} 16 {20} {32} 35 {44} {SV} uF Ripple Size Ripple Size Ripple Size Ripple Size Size Ripple 4.7 5x11 27 5x11 29 5x11 35 5x11 38 6.8 10 5x11 40 42 5x11 38 5x11 . 50 56 60 62 22 5x11 5x11 5x11 5x11 33 5x11 56 5x11 60 5x11 65 5x11 70 5x11 78 5x11 110 47 5x11 68 5x11 72 5x11 100 5x11 105 6.3x11 115 77 105 68 5x11 5x11 82 5x11 6.3x11 120 6.3x11 140 5x11 115 6.3x11 165 5x11 98 5x11 110 6.3x11 150 100 135 8x11 180 6.3x11 5x11 160 6.3x11 220 8x11 300 240 220 6.3x11 180 8x11 230 6.3x11 180 8x11 10x12 330 6.3x11 260 8x11 350 10x12 410 200 330 6.3x11 8x11 300 355 8x11 280 10x12 10x15 420 8x14 415 280 6.3x11 300 380 10x17 480 6.3x11 8x11 470 10x12 445 8x11 310 8x11 315 10x12 400 10x20 520 560 320 460 540 8x11 8x11 330 10x12 410 10x15 10x17 680 8x11 360 10x12 420 10x12 480 10x15 520 10x20 650 820 8x11 390 10x12 480 10x15 550 10x15 640 10x20 760 10x15 740 10x12 530 10x25 870 3x16 10x15 10x17 570 600 1000 8x11 420 10x17 10x20 800 850 630 10x15 580 13x21 880 1200 10x15 480 10x15 650 10x20 710 10x20 850 10x17 820 910 970 1500 10x15 620 770 10x20 13x21 13x26 13x21 13x26 1210 1270 10x17 10x17 780 870 13x21 1020 16x26 1300 2200 800 900 1060 1400 10x20 10x20 13x26 16x31 16x16 1270 10x20 850 13x21 920 13x21 1100 16x26 1330 16x31 1500 2700 10x20 970 10x25 1110 1480 13x21 1220 16x26 3300 16x36 1680 1240 13x21 1010 13x21 1160 13x26 16x31 1540 10x25 1160 13x21 1360 4700 16x26 1620 16x31 1800 18x36 1900 13x21 1200 13x26 1380 13x26 1320 16x26 1510 16x31 1720 16x36 1890 2000 5600 18x36 6800 16x26 1470 16x26 1680 16x31 1880 18x36 2040 18x41 2090 8200 16x26 1520 16x31 1840 16x36 1950 18x36 2090 22x42 2180 16x26 1690 16x36 1900 18x36 2060 10000 22x42 2200 25x44 2300 1740 1980 16x31 18x36 18x41 2080 2080 16x36 15000 18x36 2230 22x40 2300 22x42 2500 2190 18x36

Case Size

Ø D x L (mm)

Ripple Current(mA,rms)at105
120Hz

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Case Size									Ø) x L (mm)
(5V)		50 53}		63 79}	-	00 25}	160 {200}		200 {250}	
uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1	5x11	1.3	5x11	1.3	5x11	1.3	-	-	-	-
0.22	5x11	2.9	5x11	2.9	5x11	2.9	-	-	-	-
0.33	5x11	4.2	5x11	4.2	5x11	4.2	-	-	-	-
0.47	5x11	8	5x11	8	5x11	8	5x11	12	5x11	12
1	5x11	14	5x11	14	5x11	15	5x11	17	6.3x11	17
2.2	5x11	20	5x11	21	5x11	22	6.3x11	26	6.3x11	33
3.3	5x11	26	5x11	28	5x11	30	6.3x11	32	6.3x11	43
4.7	5x11	32	5x11	34	5x11	36	6.3x11 8x11	36 42	8x11	51
6.8	5x11	40	5x11	42	6.3x11	47	8x11	56	10x12	63
10	5x11	50	5x11	51	6.3x11	60	8x11 10x12	75 78	10x12 10x15	83 90
22	5x11	75	5x11 6.3x11	75 85	6.3x11 8x11	98 105	10x15	105	10x20	135
33	5x11 6.3x11	90 95	6.3x11 8x11	105 115	8x11 10x12	145 155	10x20	170	13x21	180
47	6.3x11	120	6.3x11 8x11	145 155	10x12 10x15	170 180	13x21	210	13x21 13x26	220 230
68	8x11	155	8x11	185	10x15	240	13x26	280	16x26	300
100	8x11	200	10x12	240	10x20	290	13x26 16x26	320 330	16x26	360
220	10x12 10x15	350 380	10x17 10x20	400 430	13x26 16x26	530 560	16x36	580	18x36	590
330	10x17 10x20	450 470	13x21	570	16x26	680	18x31	710	18x36	740
470	13x21	610	13x21 13x26 16x26	640 700 720	16x26 16x31	840 860	18x41	880	22x42	890
560	13x21	660	13x26	770	16x36	880	-	-	-	-
680	13x26	770	16x26	880	16x36	920	-	-	-	-
820	13x26	850	16x26	920	18x31	970	-	-	-	-
1000	13x26 16x26	900 1010	16x32 16x36	1190 1220	18x41	1250	-	-	-	-
1500	16x31	1300	18x31	1350	22x42	1500	-	-	-	-
2200	18x36	1550	18x36	1590	25x44	1880	-	-	-	-
2700	18x36	1610	22x42	1720	-	-	-	-	-	-
3300	18x36	1780	22x42	1900	-	-	-	-	-	-
4700	22x42	2050	25x44	2200	-	-	-	-	-	-
5600	25x42	2160	-	-	-	-	-	-	-	-
6800	25x44	2280	-	-	-	-	-	-	-	-
L							Ripple Cu	urrent(mA	.rms)at10	50120Hz

Ripple Current(mA,rms)at105⊡120Hz

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Case Size							Ø	DxL(mm)	
(SV)	250	{300}	350	{400}	400	{ 450}	450	{500}	
uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.47	5x11	12	6.3x11	15	6.3x11	15	6.3x11	15	
1	6.3x11	17	6.3x11	20	8x11	22	8x11	22	
2.2	8x11	36	10x12	39	10x12	39	10x12	39	
3.3	8x11	43	10x12	53	10x12 10x15	53 55	10x15 10x20	53 55	
4.7	10x12	51	10x12 10x15	63 66	10x15	69	10x20	64	
6.8	10x12	70	10x15	79	10x15	85	10x20	75	
10	10x15	90	10x20	110	10x15 10X20 13x21	100 112 115	13x21 13x26	92 98	
22	10×20	160	13x26	180	13x21 16x26	170 190	16x26 16x31	175 180	
33	13x21 13x26	175 180	16x26	190	16x26	220	16x36	210	
47	13x26	240	16x31	250	16x31	300	16x36	280	
68	16x26	320	16x31	330	16x36	355	18x36	330	
100	16x31	400	18x36	420	18x36	450	-	-	
120					18x31	440			
						innle Current	(mA mac) at	105-1201-	

Ripple Current(mA,rms)at105
120Hz

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