

Datasheet

ENGLISH

Aluminium Electrolytic Capacitor

RS Stock number 711-1438



Specifications:

Item		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 (μ A). After 1 minute whichever is greater measured with rated working voltage applied. I < 0.03 CV or 3 (μ A). After 1 minute with rated working voltage applied.								ated					
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 (%) 23 20 16 14 12 10 10 10 15 15 16 20 Max.								20	20	20				
	For capacita	ance > 1	1000μ	F, add	l 2% p	er and	ther 1	000μ	(+20°(C at 120	OHz)				

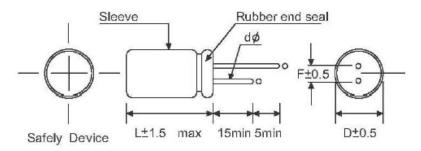
RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Specifications:

Item						Perfo	rmano	ce Char	acteris	tics					
Low	Impedance ratio max.														
Temperature Characteristics (at 120Hz)	W.V (VDC) 6.3 10 16 25 35 50 63 100 160 20								200	250	350	400	450		
(40 120112)	Z- 25°C/+20°C	4	3	2	2	2	2	2	2	3	3	3	5	6	15
	Z- 40°C/+20°C	9	6	4	4	3	3	3	3	-	-	-	-	-	-
	For capacitance value 1000μF, add 0.5 per another 1000μF for -25°C/+20°C For capacitance value 1000μF, add 1 per another 1000μF for -40°C/+20°C														
Load Life	Duration time Ambient tem Applied volta After test req After test req Dissipation Fa	Test Conditions: Duration time: 2000hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements: +20°C After test requirements: ≤ ± 20% of initial measured value Dissipation Factor: ≤ 200% of the initial specified value Leakage Current: ≤ the initial specified value													
Shelf Life	Test Conditio Duration time Ambient tem Applied Volta After test req Pre-treatmen minutes.	e: 10 peratu ge: N uireme	re: + None ents at	+20°0	C: Sam					cation o	of DC w	orking	voltage	e for 30)

Diagram of Dimensions:



									(Unit: mm
D	5	6	8	10	13	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12
φd		0.5		0.6			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≤ 100	0.8	1.0	1.23	1.36	1.48	1.53
100< CAP< 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



Case Size Ø D x L (mm)

WV {SV}	6.3	{8}	10	{13}	16	{20}	25	{32}	35	{44}
uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7						→	5x11	27	5x11	29
6.8						→	5x11	35	5x11	38
10				→	5x11	38	5x11	40	5x11	42
22		-	5x11	50	5x11	56	5x11	60	5x11	62
33	5x11	56	5x11	60	5x11	65	5x11	70	5x11	78
47	5x11	68	5x11	72	5x11	100	5x11	105	5x11 6.3x11	110 115
68	5x11	77	5x11	82	5x11	105	6.3x11	120	6.3x11	140
100	5x11	98	5x11	110	5x11 6.3x11	115 135	6.3x11	150	6.3x11 8x11	165 180
220	5x11 6.3x11	160 180	6.3x11	180	6.3x11 8x11	220 230	8x11	240	8x11 10x12	300 330
330	6.3x11	200	6.3x11 8x11	260 280	8x11	300	8x11 10x12	350 355	10x12 10x15	410 420
470	6.3x11 8x11	280 310	6.3x11 8x11	300 315	8x11 10x12	380 400	8x14 10x12	415 445	10x17 10x20	480 520
560	8x11	320	8x11	330	10x12	410	10x15	460	10x17	540
680	8x11	360	10x12	420	10x12	480	10x15	520	10x20	650
820	8x11	390	10x12	480	10x15	550	10x15	640	10x20	760
1000	8x11	420	10x12 10x15	530 580	8x16 10x15 10x17	570 600 630	10x15 10x17 10x20	740 800 850	10x25 13x21	870 880
1200	10x15	480	10x15	650	10x20	710	10x20	850		
1500	10x15	620	10x17	770	10x20	820	13x21	910	13x26	970
2200	10x17 10x20	780 800	10x17 10x20	870 900	13x21 13x26	1020 1080	13x21 13x26 16x16	1210 1270 1270	16x26 16x31	1300 1400
2700	10x20	850	13x21	920	13x21	1100	16x26	1330	16x31	1500
3300	10x20 13x21	970 1010	10x25 13x21	1110 1160	13x21 13x26	1220 1240	16x26 16x31	1480 1540	16x36	1680
4700	10x25 13x21	1160 1200	13x21 13x26	1360 1380	16x26	1620	16x31	1800	18x36	1900
5600	13x26	1320	16x26	1510	16x31	1720	16x36	1890	18x36	2000
6800	16x26	1470	16x26	1680	16x31	1880	18x36	2040	18x41	2090
8200	16x26	1520	16x31	1840	16x36	1950	18x36	2090	22x42	2180
10000	16x26 16x31	1690 1740	16x36 18x36	1900 1980	18x36 18x41	2080 2080	22x42	2200	25x44	2300
15000	16x36 18x36	2080 2190	18x36	2230	22x40	2300	22x42	2500	•	-

Ripple Current(mA,rms)at105□120Hz



WV Siy 63 Ripple Size Siz	Case Size									ØE) x L (mm)
0.1											
0.22	uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.33	0.1	5x11	1.3	5x11	1.3	5x11	1.3	-	-	-	-
0.47	0.22	5x11	2.9	5x11	2.9	5x11	2.9	-	-	-	-
1	0.33	5x11	4.2	5x11	4.2	5x11	4.2	-	-	-	-
2.2 5x11 20 5x11 21 5x11 22 6.3x11 26 6.3x11 33 3.3 5x11 20 5x11 28 5x11 30 6.3x11 32 6.3x11 43 4.7 5x11 32 5x11 34 5x11 36 6.3x11 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 75 10x12 76 10x12 63 22 5x11 75 6.3x11 75 6.3x11 85 8x11 105 10x12 76 10x12 80 33 6x11 90 6.3x11 105 8x11 105 10x12 170 13x21 180 47 6.3x11 120 6.3x11 146 10x12 185 10x12<	0.47	5x11	8	5x11	8	5x11	8	5x11	12	5x11	12
3.3	1	5x11	14	5x11	14	5x11	15	5x11	17	6.3x11	17
4.7 5x11 32 5x11 34 5x11 36 8x11 42 8x11 51 6.8 5x11 40 5x11 42 6.3x11 47 8x11 56 10x12 63 10 5x11 50 5x11 51 6.3x11 60 10x12 78 10x15 80 22 5x11 75 6.3x11 75 6.3x11 85 8x11 105 10x15 105 10x20 135 33 5x11 90 6.3x11 105 8x11 105 10x15 105 10x20 135 47 6.3x11 95 6x11 105 8x11 105 10x15 10x20 170 13x21 180 47 6.3x11 120 6.3x11 105 10x12 170 13x21 210 13x21 120 13x21 220 68 8x11 155 8x11 185 10x15	2.2	5x11	20	5x11	21	5x11	22	6.3x11	26	6.3x11	33
4.7 5x11 32 5x11 34 5x11 36 8x11 42 8x11 51 6.8 5x11 40 5x11 42 6.3x11 47 8x11 56 10x12 63 10 5x11 50 5x11 51 6.3x11 60 10x12 78 10x12 83 22 5x11 75 5x11 75 6.3x11 96 8x11 105 10x15 105 10x20 135 33 5x11 90 6.3x11 105 8x11 115 10x15 105 10x20 136 47 6.3x11 120 6.3x11 115 10x12 155 10x12 13x21 210 13x21 180 47 6.3x11 120 6.3x11 115 10x15 13x21 210 13x21 180 47 8.3x11 120 10x12 13x21 10x15 13x21 13x21 13x21 <td>3.3</td> <td>5x11</td> <td>26</td> <td>5x11</td> <td>28</td> <td>5x11</td> <td>30</td> <td>6.3x11</td> <td>32</td> <td>6.3x11</td> <td>43</td>	3.3	5x11	26	5x11	28	5x11	30	6.3x11	32	6.3x11	43
10	4.7	5x11	32	5x11	34	5x11	36	ı	ı	8x11	51
10	6.8	5x11	40	5x11	42	6.3x11	47	8x11	56	10x12	63
22	10	5x11	50	5x11	51	6.3x11	60				
33 6.3x11 96 8x11 115 10x12 165 10x20 170 13x21 180 47 6.3x11 120 6.3x11 146 10x12 170 13x21 210 13x21 220 68 8x11 155 8x11 185 10x15 240 13x26 280 16x26 300 100 8x11 200 10x12 240 10x20 290 13x26 320 16x26 360 220 10x15 380 10x17 400 13x26 530 16x36 380 18x36 590 330 10x17 450 13x21 570 16x26 680 18x31 710 18x36 590 470 13x21 610 13x26 700 16x26 880 18x31 710 18x36 740 470 13x21 640 13x26 700 16x26 880 18x41 880 22x42	22	5x11	75					10x15	105	10x20	135
47 6.3x11 120 6.3x11 146 10x12 170 13x21 210 13x26 220 68 8x11 155 8x11 185 10x15 240 13x26 280 16x26 300 100 8x11 200 10x12 240 10x20 290 13x26 330 16x26 360 220 10x12 350 10x17 400 13x26 530 16x36 380 18x36 590 330 10x17 450 13x21 570 16x26 580 16x36 580 18x36 590 470 13x21 610 13x21 670 16x26 880 18x31 710 18x36 740 470 13x21 610 13x26 700 16x26 880 18x41 880 22x42 890 560 13x21 680 13x26 770 16x26 880 16x36 920 -	33				105	8x11	145	10x20	170	13x21	180
68 8x11 155 8x11 185 10x15 240 13x26 280 16x26 300 100 8x11 200 10x12 240 10x20 290 13x26 320 16x26 360 220 10x15 350 10x17 400 13x26 530 16x36 580 18x36 560 330 10x17 450 13x21 570 16x26 680 18x31 710 18x36 740 470 13x21 610 13x21 640 16x26 880 18x41 880 22x42 890 560 13x21 680 13x26 770 16x36 880 - - - - 680 13x21 680 13x26 770 16x36 880 - - - - 820 13x28 770 16x26 880 16x36 920 - - - - -<	47			6.3x11	145	10x12	170	13x21	210		
100	68	8x11	155					13x26	280		
220 10x12 10x15 380 10x20 430 18x26 580 18x36 580 18x38 590 330 10x17 450 10x20 470 13x21 570 18x26 680 18x31 710 18x38 740 470 13x21 610 13x26 700 16x26 720 16x31 860 18x41 880 22x42 890 560 13x21 660 13x26 770 16x26 880 16x38 920	100	8x11	200	10x12	240	10×20	290	ı	ı	16x26	360
330	220									18x36	590
470 13x21 610 13x26 700 16x26 720 18x28 880 18x41 880 22x42 890 560 13x21 660 13x26 770 16x36 880 - - - - - 680 13x26 770 16x36 880 920 - - - - - 820 13x26 850 16x26 920 18x31 970 - <td>330</td> <td>10x17</td> <td>450</td> <td></td> <td></td> <td></td> <td></td> <td>18x31</td> <td>710</td> <td>18x36</td> <td>740</td>	330	10x17	450					18x31	710	18x36	740
560 13x21 680 13x28 770 16x36 880 -	470			13x26	700			18x41	880	22x42	890
820 13x28 850 16x26 920 18x31 970 - - - - 1000 13x28 1010 16x32 1190 16x38 1220 18x41 1250 - - - - 1500 16x31 1300 18x31 1350 22x42 1500 - - - - 2200 18x36 1550 18x36 1590 25x44 1880 - - - - 2700 18x38 1610 22x42 1720 - - - - - 3300 18x38 1780 22x42 1900 - - - - - 4700 22x42 2050 25x44 2200 - - - - - 5600 25x42 2160 - - - - - - -	560	13x21	660	13x26	770	16x36	880	-	-	-	-
1000 13x28 1010 16x32 1190 1220 18x41 1250	680	13x26	770	16x26	880	16x36	920	-	-	-	-
1000 16x26 1010 16x36 1220 18x41 1250 - - - - - 1500 16x31 1300 18x31 1350 22x42 1500 - - - - 2200 18x38 1550 18x38 1590 25x44 1880 - - - - 2700 18x38 1610 22x42 1720 - - - - - - 3300 18x38 1780 22x42 1900 - - - - - - 4700 22x42 2050 25x44 2200 - - - - - - 5600 25x42 2160 - - - - - - -	820	13x26	850	16x26	920	18x31	970	-	-	-	-
1500 16x31 1300 18x31 1350 22x42 1500 - <td>1000</td> <td></td> <td></td> <td></td> <td></td> <td>18x41</td> <td>1250</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	1000					18x41	1250	-	-	-	-
2700 18x38 1610 22x42 1720 - - - - - 3300 18x36 1780 22x42 1900 - - - - - 4700 22x42 2050 25x44 2200 - - - - - 5600 25x42 2160 - - - - - - -	1500					22x42	1500	-	-	-	-
3300 18x36 1780 22x42 1900	2200	18x36	1550	18x36	1590	25x44	1880	-	-	-	-
4700 22x42 2050 25x44 2200	2700	18x36	1610	22x42	1720	-	-	-	-	-	-
5600 25x42 2160	3300	18x36	1780	22x42	1900	-	-	-	-	-	-
	4700	22x42	2050	25x44	2200	-	-	-	-	-	-
6800 25x44 2280	5600	25x42	2160	-	-	-	-	-	-	-	-
	6800	25x44	2280	-	-	-	-	-	-	-	-

Ripple Current(mA,rms)at105□120Hz

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Case Size							o	DxL(mm)
WV {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	10x20	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		

Ripple Current(mA,rms)at105 120Hz