

# **Aluminium Electrolytic Capacitor**

RS Stock number 711-1009



### **Specifications:**

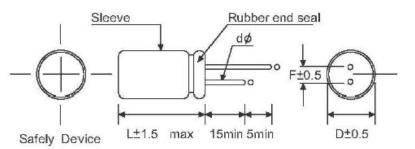
Item		Performance Characteristics													
Operating Temperature Range	-40 to +105°C								-25 to +105°C						
Rated Voltage Range	6.3 to 100 VDC								160 to 450 VDC						
Capacitance Tolerance		<u>+</u> 20% (120Hz, +20°C)													
Leakage Current (at 20°C, max.)	I < 0.01 CV ( is greater n applied.								I < 0.03 CV or 3 (μA). 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 (%) Max.	23	20	16	14	12	10	10	10	15	15	16	20	20	20
	For capacita	ance > :	1000µ	F, add	l 2% p	er and	other 1	.000µ	(+20°(	C at 12(	)Hz)				



### **Specifications:**

Item						Perfo	rman	ce Char	racteris	tics					
Low	Impedance ratio max.														
Temperature Characteristics (at 120Hz)	W.V (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
(01 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 capacitan For capacitan			•		•			•	-		-	-		
Load Life	For capacitance value $1000\mu$ F, add 1 per another $1000\mu$ F for $-40^{\circ}$ C/+ $20^{\circ}$ C Test Conditions: Duration time: 2000hrs Ambient temperature: + $105^{\circ}$ C Applied voltage: Rated DC working voltage After test requirements: + $20^{\circ}$ C After test requirements: $\leq \pm 20\%$ of initial measured value Dissipation Factor: $\leq 200\%$ of the initial specified value Leakage Current: $\leq$ 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	of DC w	vorking	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		

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.

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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>&lt;</u> 10	0.8	1.0	1.30	1.45	1.65	1.70
10< CAP <u>&lt;</u> 100	0.8	1.0	1.23	1.36	1.48	1.53
100< CAP <u>&lt;</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



Case Size

Ø D x L (mm)

wv {sv}	6.3	{8}	10	{13}	16	<del>{</del> 20}	25	{32}	35	{44}
uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7						<b>→</b>	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 1060	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	2060 2080	22x42	2200	25x44	2300
15000	16x36 18x36	2080 2190	18x36	2230	22x40	2300	22x42	2500	-	-

Ripple Current(mA,rms)at105□120Hz



Case Size Ø D x L (mm) WV 50 63 100 160 200 {SV} {63} {79} {125} {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 4.2 4.2 5x11 5x11 -. \_ -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 20 22 26 6.3x11 33 5x11 5x11 21 5x11 6.3x11 3.3 5x11 26 5x11 28 5x11 30 6.3x11 32 6.3x11 43 6.3x11 36 4.7 5x11 32 5x11 34 5x11 36 8x11 51 8x11 42 6.8 5x11 40 5x11 42 6.3x11 47 8x11 56 10x12 63 8x11 10x12 83 75 10 5x11 50 5x11 51 6.3x11 60 10x12 78 10x15 90 75 5x11 6.3x11 98 22 5x11 75 10x15 105 10x20 135 6.3x11 85 8x11 105 5x11 90 6.3x11 105 8x11 145 33 10x20 170 180 13x21 155 6.3x11 95 8x11 115 10x12 6.3x11 145 10x12 170 13x21 220 47 6.3x11 120 13x21 210 155 230 10x15 180 13x26 8x11 16x26 68 8x11 155 8x11 185 10x15 240 13x26 280 300 13x26 320 100 200 10x12 240 290 16x26 8x11 10x20 360 16x26 330 10x12 350 10x17 400 13x26 530 220 16x36 580 18x36 590 10x15 380 560 10x20 430 16x26 450 10x17 330 13x21 570 16x26 680 18x31 710 18x36 740 10x20 470 13x21 640 16x26 840 470 22x42 13x21 610 13x26 700 18x41 880 890 860 16x31 16x26 720 560 13x21 660 13x26 770 16x36 880 680 13x26 770 16x26 880 16x36 920 ----820 13x26 850 16x26 920 18x31 970 . ---13x26 900 16x32 1190 1000 1250 18x41 -. . -1010 16x36 16x26 1220 1500 1300 1350 16x31 18x31 22x42 1500 ----2200 25x44 1880 18x36 1550 18x36 1590 ----2700 18x36 1610 22x42 1720 3300 18x36 1780 22x42 1900 ---. --4700 25x44 22x42 2050 2200 . . . \_ 5600 25x42 2160 -------\_ 6800 25x44 2280 --------Ripple Current(mA,rms)at105
120Hz



{400} Ripple 15 20 39 53	400 Size 6.3x11 8x11 10x12 10x12 10x15	{450} Ripple 15 22 39 53 55	450 Size 6.3x11 8x11 10x12 10x15	{500} Ripple 15 22 39 53 55
15 20 39 53	6.3x11 8x11 10x12 10x12	15 22 39	6.3x11 8x11 10x12 10x15	15 22 39
20 39 53	8x11 10x12 10x12	22	8x11 10x12 10x15	22
39	10x12 10x12	39	10x12 10x15	39
53	10x12		10x15	
		53 55		53 55
			10x20	
63 66	10x15	69	10x20	64
79	10x15	85	10x20	75
110	10x15 10X20 13x21	100 112 115	13x21 13x26	92 98
180	13x21 16x26	170 190	16x26 16x31	175 180
190	16x26	220	16x36	210
250	16x31	300	16x36	280
330	16x36	355	18x36	330
420	18x36	450	-	-
	18x31	440		
	110 180 190 250 330	79         10x15           110         10x15           110         10x20           13x21         13x21           180         13x26           190         16x26           250         16x31           330         16x38           420         18x36           18x31         18x31	63         66         10x15         69           79         10x15         85           110         10x15         100           110         10x20         112           13x21         115         100           180         13x21         170           190         18x26         220           250         10x31         300           330         10x36         355           420         18x36         450           18x31         440	10x15         10x20           63         66         10x15         69         10x20           79         10x15         85         10x20           110         10x15         100         13x21           110         10x20         112         13x21           180         13x21         170         16x36           190         16x26         220         16x38           250         16x31         300         16x38           330         16x36         355         18x38           420         18x36         450         -

Ripple Current(mA,rms)at105
120Hz