

#### **Datasheet**

## ENGLISH

### **Aluminium Electrolytic Capacitor**

RS Stock number 711-2119



#### **Specifications:**

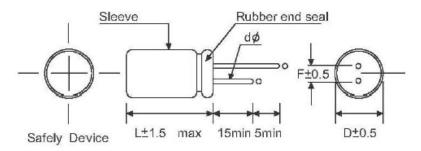
Item						Perfo	orman	ce Cha	racteris	stics					
Operating Temperature Range		-4(	) to +1	.05°C					-25 to +105°C						
Rated Voltage Range		6.3	3 to 10	0 VDC	•				160 to 450 VDC						
Capacitance Tolerance						<u>+</u>	20% (	120Hz	, +20°C	)					
Leakage Current (at 20°C, max.)		I < 0.01 CV or 3 ( $\mu$ A). After 1 minute whichever is greater measured with rated working voltage applied. I < 0.03 CV or 3 ( $\mu$ A). After 1 minute with rate working voltage applied.								ated					
Dissipation Factor (120Hz, 20°C)	Factor   Working   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 > 1	1000μ	F, add	l 2% p	er and	other 1	000μ	(+20°0	C at 120	OHz)				_



### **Specifications:**

Item		Performance Characteristics													
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
(	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 juireme	re: + None ents at	+20°0	C: Sam					ication (	of DC w	orking	voltage	e for 30	)

#### Diagram of Dimensions:



									(Unit: mr
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 <b>–</b> 100K
CAP <u>&lt;</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)

(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						$\rightarrow$	5x11	27	5x11	29
6.8						<b></b>	5x11	35	5x11	38
10				<b>—</b>	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	2080 2080	22x42	2200	25x44	2300
15000	16x36 18x36	2080 2190	18x36	2230	22x40	2300	22x42	2500	-	-

Ripple Current(mA,rms)at105 120Hz

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System   Fig.   Size   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   32   6.3x11   43	0.47	5x11	8	5x11	8	5x11	8	5x11	12	5x11	12
3.3   5x11   28   5x11   30   6.3x11   32   6.3x11   43	1	5x11	14	5x11	14	5x11	15	5x11	17	6.3x11	17
4.7	2.2	5x11	20	5x11	21	5x11	22	6.3x11	26	6.3x11	33
4.7	3.3	5x11	26	5x11	28	5x11	30	6.3x11	32	6.3x11	43
10	4.7	5x11	32	5x11	34	5x11	36	ı		8x11	51
10	6.8	5x11	40	5x11	42	6.3x11	47	8x11	56	10x12	63
33	10	5x11	50	5x11	51	6.3x11	60				
100	22	5x11	75					10x15	105	10x20	135
47         6.3x11         120         8x11         155         10x15         180         13x21         210         13x26         230           68         8x11         155         8x11         185         10x15         240         13x26         280         16x28         300           100         8x11         200         10x12         240         10x20         290         13x26         320         16x26         380           220         10x15         380         10x20         430         18x26         530         16x26         380         18x36         590           330         10x17         450         13x21         570         16x26         680         18x31         710         18x36         740           470         13x21         610         13x26         700         16x26         880         18x41         880         22x42         890           560         13x21         660         13x26         770         16x36         880         -         -         -         -         -           680         13x26         770         16x36         880         -         -         -         -         -         <	33							10x20	170	13x21	180
100         8x11         200         10x12         240         10x20         290         13x26 18x26         320 330         16x26         360           220         10x15 10x15         380 380         10x27 430         400 16x26         13x26 560         560         16x38         580         18x38         560           330         10x17 10x20         470         13x21         570         16x26 700         680         18x31         710         18x36         740           470         13x21         610         13x26 16x26         770         16x26 16x31         840 880         18x41         880         22x42         890           560         13x21         660         13x26 16x26         770         16x36 880         880         -         -         -         -           680         13x26 13x26         770         16x36 880         16x36 920         920         -         -         -         -         -           820         13x26 16x26         920         18x31         970         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	47	6.3x11	120					13x21	210		
100	68	8x11	155	8x11	185	10x15	240	13x26	280	16x26	300
10x15   380   10x20   430   16x26   560   16x36   740   13x21   610   13x26   700   16x31   860   18x41   880   22x42   890   16x31   860   13x26   770   16x36   880   -   -   -   -   -   -   -   -   -	100	8x11	200	10x12	240	10x20	290	ı		16x26	360
10x20	220							16x36	580	18x36	590
470         13x21         610         13x26 700 16x26 720 16x31         840 18x41         880         22x42         890           560         13x21         660         13x26 770 16x36 880         -	330			13x21	570	16x26	680	18x31	710	18x36	740
680       13x26       770       16x26       880       16x36       920       -	470		610	13x26	700			18x41	880	22x42	890
820       13x26       850       16x26       920       18x31       970       -	560	13x21	660	13x26	770	16x36	880	-	-	-	-
1000     13x28 16x28 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     -     -     -     -       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     -     -     -     -     -     -     -     -	1000				1	18x41	1250	-	-	-	-
2700     18x38     1610     22x42     1720     -     -     -     -     -       3300     18x38     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 Ø D x L (mm)

Case Size							8	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	10×20	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			

Ripple Current(mA,rms)at105□120Hz