

Datasheet

ENGLISH

Aluminium Electrolytic Capacitor

RS Stock number 711-0719



Specifications:

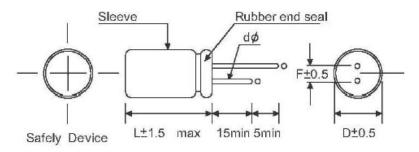
Item		Performance Characteristics													
Operating Temperature Range	-40 to +105°C								-25 to +105°C						
Rated Voltage Range	6.3 to 100 VDC								160 to 450 VDC						
Capacitance Tolerance		<u>+</u> 20% (120Hz, +20°C)													
Leakage Current (at 20°C, max.)		I < 0.01 CV or 3 (μ A). After 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 6.3 10 16 25 35 50 63 100 160 200 250 350 voltage (VDC)								400	450					
	D.F (%) 23 20 16 14 12 10 10 10 15 15 16 20 20 2									20					
	For capacita	ance > :	1000μ	F, add	l 2% p	er and	other 1	.000μ	(+20°(C at 120	OHz)				



Specifications:

Item						Perfo	rmano	e Chai	acteris	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
(0.1 = 2)	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 $1000\mu\text{F}$, add 0.5 per another $1000\mu\text{F}$ for $-25^{\circ}\text{C}/+20^{\circ}\text{C}$ For capacitance value $1000\mu\text{F}$, add 1 per another $1000\mu\text{F}$ for $-40^{\circ}\text{C}/+20^{\circ}\text{C}$														
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													
Shelf Life	Duration time Ambient tem Applied Volta After test req	Leakage Current: ≤ the initial specified value 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
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		



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)

Size											
4.7 5x11 5x11 5x11 5x11 5x11 3x1 5x11 3x1 5x11 3x1 5x11 3x1 5x11		6.3	{8}	10	{13}	16	{20}	25	{32}	35	{44}
5.8	uF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10	4.7						-	5x11	27	5x11	29
22	6.8						-	5x11	35	5x11	38
33	10				—	5x11	38	5x11	40	5x11	42
47 5x11 68 5x11 72 5x11 100 5x11 105 6x11 115 68 x11 115 68 5x11 77 5x11 82 5x11 105 6.3x11 120 6.3x11 140 100 5x11 98 5x11 110 6.3x11 115 6.3x11 150 6.3x11 180 100 5x11 98 5x11 110 6.3x11 135 6.3x11 150 6.3x11 180 100 5x11 180 6.3x11 180 6.3x11 135 6.3x11 150 6.3x11 180 100 5x11 180 6.3x11 180 6.3x11 135 6.3x11 150 6.3x11 180 100 5x11 180 6.3x11 180 6.3x11 130 6.3x11 130 6.3x11 120 6.3x11 180 6.3x11 130	22		-	5x11	50	5x11	56	5x11	60	5x11	62
10	33	5x11	56	5x11	60	5x11	65	5x11	70	5x11	78
100	47	5x11	68	5x11	72	5x11	100	5x11	105		
100	68	5x11	77	5x11	82	5x11	105	6.3x11	120	6.3x11	140
220 6.3x11 180 0.3x11 180 8x11 230 8x11 350 10x12 330	100	5x11	98	5x11	110			6.3x11	150		
330 0.5x11 200 8x11 280 8x11 300 10x12 355 10x15 420	220			6.3x11	180			8x11	240		
470 8x11 310 8x11 315 10x12 400 10x12 445 10x20 520 560 8x11 320 8x11 330 10x12 410 10x15 460 10x17 540 680 8x11 380 10x12 420 10x12 480 10x15 520 10x20 660 820 8x11 390 10x12 480 10x15 550 10x15 640 10x20 760 1000 8x11 420 10x12 530 8x16 10x15 550 10x15 640 10x20 760 1000 8x11 420 10x12 530 8x16 10x15 570 10x20 760 1000 8x11 420 10x12 530 8x16 10x15 640 10x20 780 1200 10x15 620 10x17 770 10x20 710 10x20 850 13x21 18x31	330	6.3x11	200			8x11	300				
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 530 8x16 10x15 570 10x15 740 10x25 870 1000 8x11 420 10x15 580 8x16 10x15 570 10x17 870 10x25 880 10x20 850 10x21 880 10x25 880 10x20 850 10x25 870 10x20 850 10x20 850 10x25 10x20 820 13x21 910 13x26 970 10x20 820 13x21 910 13x26 1300 16x26 1300 16x26 1300 16x26	470		1								
820 8x11 390 10x12 480 10x15 560 10x15 640 10x20 760 1000 8x11 420 10x12 530 8x16 10x15 570 630 10x15 700 10x25 870 1200 10x15 480 10x15 650 10x20 710 10x20 850 13x21 880 1500 10x15 620 10x17 770 10x20 820 13x21 910 13x26 970 2200 10x17 780 10x17 870 13x21 1020 13x21 910 13x26 970 2200 10x17 780 10x17 870 13x21 1020 13x21 910 13x26 1300 2700 10x20 850 13x21 920 13x21 1100 16x26 1330 16x31 1500 3300 10x20 850 13x21 1160 13x21 120	560	8x11	320	8x11	330	10x12	410	10x15	460	10x17	540
1000 8x11 420 10x12 530 8x16 10x15 570 600 10x15 740 800 13x21 880	680	8x11	360	10x12	420	10x12	480	10x15	520	10x20	650
1000	820	8x11	390	10x12	480	10x15	550	10x15	640	10x20	760
1500 10x15 620 10x17 770 10x20 820 13x21 910 13x26 970 2200 10x17 10x20 780 800 10x17 10x20 870 900 13x21 13x26 1020 13x26 13x21 13x26 1210 13x26 16x26 1270 13x0 16x31 1400 2700 10x20 850 13x21 920 13x21 1100 16x26 1330 16x31 1500 3300 10x20 13x21 970 1010 10x25 13x21 1110 1160 13x21 1160 1220 13x26 16x26 1240 1480 16x31 16x36 1680 4700 10x25 13x21 1160 13x26 1380 1380 16x26 1380 16x31 1800 18x36 1800 18x36 1900 5600 13x26 1320 16x26 16x31 1720 16x36 18x36 1800 18x36 1800 2040 18x41 2090 8200 16x26 16x31 1840 16x36 18x31 1980 18x36 18x41 2080 22x42 200 25x44 200 25x44 200 25x4	1000	8x11	420					10x17	800		
2200 10x17 10x20 780 10x20 10x17 900 13x21 10x20 10x20 13x26 1270 16x36 1270 16x31 1300 16x31 1400 2700 10x20 850 13x21 920 13x21 1100 16x26 1330 16x31 1500 3300 10x20 970 10x25 1110 13x21 1220 16x26 1480 16x31 1540 16x36 1680 4700 10x25 1160 13x21 1360 13x26 1240 16x31 1540 16x31 1540 18x38 1900 5600 13x21 1200 13x26 1380 16x26 16x31 1720 16x36 1890 18x36 2000 18x36 2000 18x36 2000 6800 16x26 1470 16x26 1680 16x31 1880 18x36 2040 18x41 2090 18x41 2090 8200 16x26 1520 16x31 1840 16x36 1950 18x36 2090 22x42 2180 10000 16x26 16x31 1740 18x36 1980 18x41 2080 22x42 2200 25x44 2300	1200	10x15	480	10x15	650	10x20	710	10x20	850		
2700 10x20 800 10x20 900 13x26 1000 16x16 1270 16x31 1400 2700 10x20 850 13x21 920 13x21 1100 16x26 1330 16x31 1500 3300 10x20 970 10x25 1110 13x21 1220 16x26 1480 16x36 1680 4700 10x25 1160 13x21 1360 13x26 1240 16x31 1800 18x36 1900 5600 13x21 1200 13x26 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 <td>1500</td> <td>10x15</td> <td>620</td> <td>10x17</td> <td>770</td> <td>10x20</td> <td>820</td> <td>13x21</td> <td>910</td> <td>13x26</td> <td>970</td>	1500	10x15	620	10x17	770	10x20	820	13x21	910	13x26	970
3300	2200								1210 1270 1270		
3300 13x21 1010 13x21 1160 13x26 1240 16x31 1540 10x36 1680 4700 10x25 1160 13x21 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 1690 16x36 1900 18x36 2080 22x42 2200 25x44 2300 45000 16x36 2080 19x36 1980 18x41 2080 22x42 2200 25x44 2300	2700	10x20	850	13x21	920	13x21	1100	16x26	1330	16x31	1500
4700 13x21 1200 13x26 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 1690 16x36 1900 18x36 2080 22x42 2200 25x44 2300 45000 16x36 2080 19x36 23x40 23x42 23x43 2500	3300									16x36	1680
5600 13x26 1320 18x26 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 1690 16x36 1900 18x36 2080 22x42 2200 25x44 2300 45000 16x36 2080 19x36 23x40 23x40 23x43 2500	4700					16x26	1620	16x31	1800	18x36	1900
8200 16x26 1520 16x31 1840 16x36 1950 18x36 2090 22x42 2180 10000 16x26 1690 16x36 1900 18x36 2080 22x42 2200 25x44 2300 15000 16x36 2080 19x38 2330 23x40 23x40 23x42 2500	5600	13x26	1320	16x26	1510	16x31	1720	16x36	1890	18x36	2000
10000 16x26 1690 16x36 1900 18x36 2080 22x42 2200 25x44 2300	6800	16x26	1470	16x26	1680	16x31	1880	18x36	2040	18x41	2090
10000 16x31 1740 18x36 1980 18x41 2080 22x42 2200 25x44 2300	8200	16x26	1520	16x31	1840	16x36	1950	18x36	2090	22x42	2180
	10000							22x42	2200	25x44	2300
183.0 2190	15000	16x36 18x36	2080 2190	18x36	2230	22x40	2300	22x42	2500	-	-

Ripple Current(mA,rms)at105□120Hz



Case Size									ØE) x L (mm)
(SV)		50 63}		3 79}		00 25}		60 00}		00 50}
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	-	-	-	-	-	-	-	-
							Dipple Cr	ırrent(mA	rme\at10	E□120U=

Ripple Current(mA,rms)at105□120Hz



Case Size							Q	D x L (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		

Ripple Current(mA,rms)at105□120Hz