



ENGLISH

# Datasheet

## Aluminium Electrolytic Capacitor

RS Stock number 731-5264



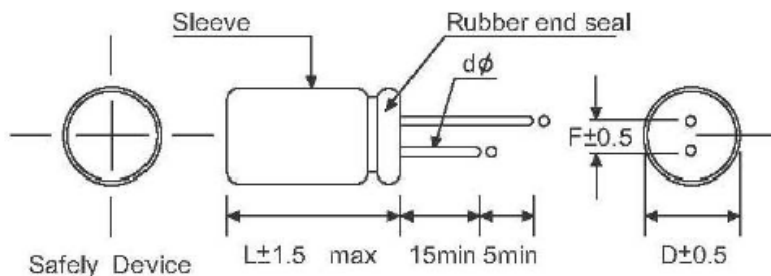
### Specifications:

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	± 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 capacitance > 1000µ F, add 2% per another 1000µ (+20°C at 120Hz)		

## Specifications:

Item	Performance Characteristics														
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.														
	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	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 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)									
<b>D</b>	5	6	8	10	13	16	18	22	25	
<b>F</b>	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12	
<b>φd</b>	0.5			0.6			0.8			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 ≤ 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	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	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	110	115							5x11	110	115
68	5x11	77	5x11	82	5x11	105	5x11	120	5x11	140								6.3x11	140	
100	5x11	98	5x11	110	5x11	135	5x11	150	5x11	165	180							6.3x11	165	180
220	5x11 6.3x11	160 180	6.3x11	180	6.3x11	220 230	8x11	240	8x11	300	330							8x11	300	330
330	6.3x11	200	6.3x11	280 280	8x11	300	8x11	355	8x11	410	420							10x12	410	420
470	6.3x11 8x11	280 310	6.3x11	300 315	8x11	380 400	8x14 10x12	415 445	8x14 10x12	480	520							10x17	480	520
560	8x11	320	8x11	330	10x12	410	10x15	460	10x15	540								10x17	540	
680	8x11	360	10x12	420	10x12	480	10x15	520	10x15	650								10x20	650	
820	8x11	390	10x12	480	10x15	550	10x15	640	10x15	760								10x20	760	
1000	8x11	420	10x12 10x15	530 580	8x16 10x17	570 630	600	740 800 850	10x15 10x17 10x20	870 880								10x25 13x21	870 880	
1200	10x15	480	10x15	650	10x20	710	10x20	850	10x20											
1500	10x15	620	10x17	770	10x20	820	13x21	910	13x21	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	16x26	1500										
3300	10x20 13x21	970 1010	10x25 13x21	1110 1160	13x21 13x26	1220 1240	16x26 16x31	1480 1540	16x26 16x31	1680										
4700	10x25 13x21	1160 1200	13x21 13x26	1360 1380	16x26	1620	16x31	1800	16x31	1900										
5600	13x26	1320	16x26	1510	16x31	1720	16x36	1890	16x36	2000										
6800	16x26	1470	16x26	1680	16x31	1880	18x36	2040	18x36	2090										
8200	16x26	1520	16x31	1840	16x36	1950	18x36	2090	18x36	2180										
10000	16x26 16x31	1690 1740	16x36 18x36	1900 1980	18x36 18x41	2080 2080	22x42	2200	22x42	2300										
15000	16x36 18x36	2080 2190	18x36	2230	22x40	2300	22x42	2500	-	-										

Ripple Current(mA,rms)at105□120Hz

Case Size uF	50 {63}		63 {79}		100 {125}		160 {200}		200 {250}	
	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	28	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 13x28	220 230
68	8x11	155	8x11	185	10x15	240	13x28	280	16x28	300
100	8x11	200	10x12	240	10x20	290	13x28 16x28	320 330	16x28	360
220	10x12 10x15	350 380	10x17 10x20	400 430	13x28 16x28	530 560	16x38	580	18x38	590
330	10x17 10x20	450 470	13x21	570	16x28	680	18x31	710	18x38	740
470	13x21	610	13x21 13x28 16x28	640 700 720	16x28 16x31	840 860	18x41	880	22x42	890
560	13x21	660	13x28	770	16x38	880	-	-	-	-
680	13x28	770	16x28	880	16x38	920	-	-	-	-
820	13x28	850	16x28	920	18x31	970	-	-	-	-
1000	13x28 16x28	900 1010	16x32 16x38	1190 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	2180	-	-	-	-	-	-	-	-
6800	25x44	2280	-	-	-	-	-	-	-	-

Ripple Current(mA,rms)at105□120Hz

Case Size WV {SV} uF	Ø D x L (mm)															
	250		{300}		350		{400}		400		{450}		450		{500}	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	5x11	12	6.3x11	15	6.3x11	15	6.3x11	15	6.3x11	15	6.3x11	15	6.3x11	15	6.3x11	15
1	6.3x11	17	6.3x11	20	8x11	22	8x11	22	8x11	22	8x11	22	8x11	22	8x11	22
2.2	8x11	38	10x12	39	10x12	39	10x12	39	10x12	39	10x12	39	10x12	39	10x12	39
3.3	8x11	43	10x12	53	10x12	53	10x12	53	10x15	53	10x15	53	10x15	53	10x20	55
4.7	10x12	51	10x12	63	10x15	68	10x15	68	10x15	68	10x15	68	10x20	64	10x20	64
6.8	10x12	70	10x15	79	10x15	85	10x15	85	10x15	85	10x15	85	10x20	75	10x20	75
10	10x15	90	10x20	110	10x15	100	10x20	112	13x21	115	13x21	115	13x21	92	13x26	98
22	10x20	160	13x26	180	13x21	170	16x28	190	13x21	170	16x28	190	16x26	175	16x31	180
33	13x21	175	13x26	180	16x26	190	16x26	190	16x26	220	16x26	220	16x36	210	16x36	210
47	13x26	240	16x31	250	16x31	300	16x31	300	16x31	300	16x31	300	16x36	280	16x36	280
68	16x26	320	16x31	330	16x36	355	16x36	355	16x36	355	16x36	355	18x36	330	18x36	330
100	16x31	400	18x36	420	18x36	450	18x36	450	18x36	450	18x36	450	-	-	-	-
120					18x31	440										

Ripple Current(mA,rms)at105□120Hz