

ALUMINUM ELECTROLYTIC CAPACITOR

CD71

FEATURES

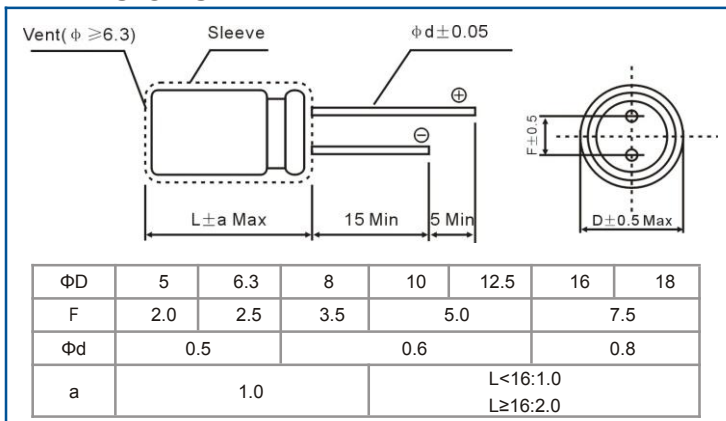
- Non-Polarized
- Standard series
- Used in polarity reverse and change circuits



SPECIFICATIONS

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Operating Temperature Range	-40~+85°C																															
Rated Voltage Range	6.3 ~ 160V																															
Nominal Capacitance Range	0.47 ~ 6800μF																															
Capacitance Tolerance	±20% (120Hz, +20°C)																															
Leakage Current	Is0.03CV + 3(μA) (1 minute)																															
Dissipation Factor (+25°C, 120Hz)	<table><tr><td>Rated Voltage(V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160</td></tr><tr><td>Tan δ</td><td>0.28</td><td>0.24</td><td>0.22</td><td>0.20</td><td>0.15</td><td>0.14</td><td>0.10</td><td>0.09</td><td>0.15</td></tr></table> For capacitance value > 1000μF, add 0.02 for every increase of 1000μF	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	160	Tan δ	0.28	0.24	0.22	0.20	0.15	0.14	0.10	0.09	0.15											
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Temperature Characteristics (120Hz)	<table><tr><td colspan="2">Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160</td></tr><tr><td rowspan="2">Impedance</td><td>Z-25°C/Z+20°C</td><td>4</td><td>3</td><td colspan="6">2</td><td>4</td></tr><tr><td>Ratio</td><td>Z-40°C/Z+20°C</td><td>10</td><td>8</td><td>6</td><td>5</td><td>4</td><td>3</td><td>-</td></tr></table>	Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160	Impedance	Z-25°C/Z+20°C	4	3	2						4	Ratio	Z-40°C/Z+20°C	10	8	6	5	4	3	-
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Load Life (85°C)	After applying rated voltage for 500x2 hours at +85°C and then resumed 16 hours <table><tr><td>Leakage current</td><td>≤Initial specified value</td></tr><tr><td>Capacitance change</td><td>±20% initial measured value</td></tr><tr><td>Dissipation factor</td><td>≤ 2 Initial specified value</td></tr></table>	Leakage current	≤Initial specified value	Capacitance change	±20% initial measured value	Dissipation factor	≤ 2 Initial specified value																									
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Shelf Life (85°C)	After storage for 1000 hours at +85°C and then resumed 16 hours <table><tr><td>Leakage current</td><td>≤ 2 Initial specified value</td></tr><tr><td>Capacitance change</td><td>±20% initial measured value</td></tr><tr><td>Dissipation factor</td><td>≤ 2 Initial specified value</td></tr></table>	Leakage current	≤ 2 Initial specified value	Capacitance change	±20% initial measured value	Dissipation factor	≤ 2 Initial specified value																									
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DIMENSIONS



mm MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient					
Freq(Hz)	50,60	120	1K	10K	100K
Cap (μF)	Factor				
6.3 ~ 16	0.80	1	1.1	1.2	1.2
25 ~ 35	0.80	1	1.5	1.7	1.7
50 ~ 160	0.80	1	1.6	1.9	1.9
Temperature coefficient					
Temperature (°C)		+70	+85		
Factor		1.35	1		

CASE SIZE DXL (mm)

WV/V	6.3	10	16	25	35
Cap/μF					
0.47	--	--	--	--	--
1.0	--	--	--	--	--
2.2	--	--	--	--	--
3.3	--	--	--	--	--
4.7	--	--	--	--	--
10	--	--	5X11	47	5X11
22	--	5X11	57	5X11	4C
33	5X11	64	5X11	40	6.3X11

Cap/μF	WV/V	6.3		10		16		25		35	
47		5X11	76	5X11	76	6.3X11	95	6.3X11	95	8X12	100
100		6.3X11	125	6.3X11	125	8X12	160	8X12	160	8X12	120
220		8X12	215	8X12	215	10X13	275	10X16	305	10X16	230
330		8X12	265	10X16	345	10X16	375	13X20	450	13X20	410
470		10X13	370	10X16	410	10X20	485	13X20	540	13X20	505
1000		10X20	650	13X25	720	16X25	855	16X25	950	13X25	655
2200		13X25	1160	16X25	1280	16X30	1510	19X35	1620	16X30	1140
3300		16X25	1570	16X30	1690	19X35	1930	—	—	—	—
4700		16X30	2020	19X35	2160	—	—	—	—	—	—
6800		19X35	2600	—	—	—	—	—	—	—	—

Cap/μF	WV/V	50			63		100		160	
0.47		5x11	11	--	--	5X11	14	--	--	
1.0		5x11	17	--	--	5X11	21	--	--	
2.2		5x11	25	--	--	6.3X11	34	--	--	
3.3		5x11	27	5X11	28	6.3X11	39	10X16	49	
4.7		5x11	34	6.3X11	34	6.3X11	47	10X16	59	
10		6.3X11	52	6.31X1	57	81X2	71	13X20	109	
22		8X12	89	8X12	95	10X16	135	13X25	177	
33		8X12	105	10X13	135	13X20	220	16X25	240	
47		10X13	150	10X12.5	155	13X20	240	16X35	329	
100		10X20	265	13X20	320	16X25	425	19X35	425	
220		13X25	480	16X25	575	19X35	720	--	--	
330		16X25	650	16X30	655	--	--	--	--	
470		16X30	835	19X35	965	-	-	-	-	

Rated ripple current (mA, +85°C, , 120Hz)