

# ALUMINUM ELECTROLYTIC CAPACITOR (CD11X SS)

## SS FEATURES

- High temperature miniature size of radial lead type
- Ideally suited for high-density assembly

## SPECIFICATIONS

Item	Performance Characteristics							
Rated Voltage Range	6.3V.DC~50V.DC							
Operating Temperature Range	-40°C~+105°C							
Nominal Capacitance Range	0.1μF~470μF							
Capacitance Tolerance	±20%(M,+25°C,120Hz)							
Leakage Current	After application of rated voltage for 2 minutes: $I \leq 0.01CV$ or $3\mu A$ (Whichever is greater)25°C C: Nominal Capacitance in μF; V: Rated Working Voltage in V							
Dissipation Factor (tanδ)	Rated Working Voltage(V)	6.3	10	16	25	35	50	
	tanδ(MAX) (25°C,120HZ)	0.24	0.22	0.18	0.16	0.14	0.12	
Temperature Stability	Rated Working Voltage(V)	6.3	10	16	25	35	50	
	Impedance	Z-25°C/Z+20°C	4	3	2			
		Ratio(120Hz)	Z-40°C/Z+20°C	10	8	6	4	
Load Life	After application of rated working voltage and maximum permissible ripple current specified at +105°C for 1000 hours , Capacitors meet the characteristics requirements measured at +25°C listed below:							
	Leakage Current			Less than the initial specified value				
	tanδ			Less than 200% of the initial specified value				
	Capacitance Change			Within ±20% of the initial measured value				
Shelf Life	After leaving capacitor under no load at +105°C for 500 hours, Cap acitors meet the characteristics listed above.							

## MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

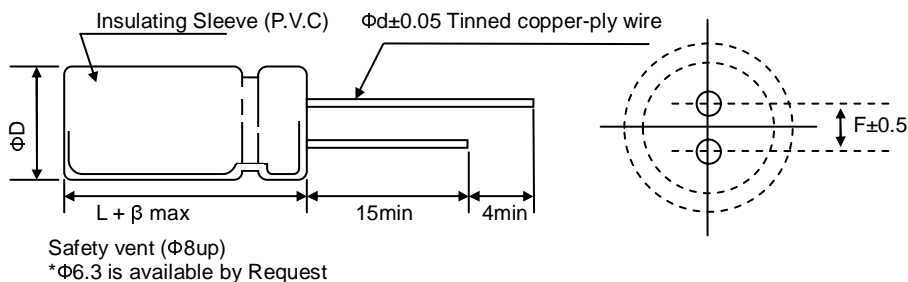
Freq(Hz) Cap(μF)	50(60)	100(120)	500	1K	10K
0.1-47	0.8	1	1.20	1.30	1.50
68-470	0.8	1	1.10	1.15	1.20

Temperature coefficient

Ambient Temperature(°C)	+85	+70	+50
Factor	1.0	1.7	2.1

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## CASE SIZE TABLE



$\beta$	0.5			
$\phi D$	4	5	6.3	8
$F \pm 0.5$	1.5	2.0	2.5	3.5
$\phi d \pm 0.1$	0.45	0.5		
L	7			9
$\alpha$	1.0			

## DIMENSIONS, RATED VOLTAGE AND CAPACITANCE

WV(v) Cap( $\mu F$ )	6.3		10		16		25		35		50		
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	
0.1											4x7	1	
0.15											4x7	1.5	
0.22											4x7	2.3	
0.33											4x7	3.5	
0.47											4x7	5	
0.68											4x7	7	
1											4x7	10	
1.5											4x7	13	
2.2											4x7	19	
3.3										4x7	21	4x7	24
4.7								4x7	19	4x7	24	4x7	29
6.8								4x7	25	4x7	29	5x7	39
10					4x7	29		4x7	33	4x7	36	5x7	44
15					4x7	34		5x7	40	5x7	43	6.3x7	58
22	4x7	34	4x7	38	4x7	44	5x7	51	5x7	57	6.3x7	60	
33	4x7	42	4x7	47	5x7	57	5x7	63	6.3x7	72	8x9	92	
47	4x7	50	4x7	58	5x7	68	6.3x7	78	6.3x7	84	8x9	102	
68	5x7	60	5x7	70	6.3x7	80	6.3x7	84	8x9	94			
100	5x7	77	5x7	96	6.3x7	107	8x9	120					
150	6.3x7	94	6.3x7	105	8x9	120							
220	6.3x7	110	6.3x7	128	8x9	195							
330	8x9	150	8x9	175									
470	8x9	180											

(1) Case Size DxL(mm)

(2) Max allowable ripple current (mArns+105°C120Hz)