

# CDVH SERIES



## ALUMINUM ELECTROLYTIC CAPACITORS

- For high density surface mounting, 105°C, 2000 hours guaranteed
- Carrier taping supplied
- Reflow soldering is available



### SPECIFICATIONS

Item	Characteristics								
Temperature Range(°C)	-55~+105								
Rated Voltage Range (V)	4~50								
Nominal capacitance range (μF)	0.1~1000								
Leakage Current (μA)	I ≤ 0.01 or 3 whichever is greater (at 20°C, after 2 minutes) C: Nominal Capacitance (μF), V: Rated Voltage (V)								
Capacitance Tolerance(20°C,120Hz)	±20%								
Dissipation Factor(20°C,120Hz)	Rated voltage (v)	4	6.3	10	16	25	35	50	
	tan δ	0.4	0.30	0.24	0.20	0.16	0.14	0.14	
Temperature Stability(120Hz)	Rated voltage (v)	4	6.3	10	16	25	35	50	
	Impedance ratio	Z-25°C/Z+20°C	7	4	3	2	2	2	2
		Z-40°C/Z+20°C	15	8	8	4	4	3	3
Load Life(+105°C)	Time	2000 hours							
	Leakage current	Not more than the specified value							
	Capacitance change	within ±20% of initial value(16V: within ±25% of the initial value)							
	Dissipation factor	Not more than 200% of specified value							
Shelf Life(+105°C)	After storage for 1000 hours at +105°C, Rated voltage to be applied for 30 minutes, the capacitors shall meet the requirement of load life above								
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.								
	Leakage current	Not more than the specified value							
	Capacitance change	within ±10% of the initial value							
	Dissipation factor	Not more than the specified value							

### DIMENSIONS

### MM

### MULTIPLIER FOR RIPPLE CURRENT

(Φ4~Φ6.3)

**Lead spacing and diameter**

	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7	8 × 10.5	10 × 10.5
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10	10
H	0.5 ~ 0.8			0.8 ~ 1.1		

(Φ8~Φ10)

**Frequency coefficient**

Freq (Hz)	50	120	300	1K	≥ 10K
Coefficient	0.7	1.00	1.17	1.36	1.50

## ■ STANDARD RATINGS

WV(v)	4		6.3		10		16		25		35		50	
Cap(μF)	D×L mm	Ripple (mA)	D×L mm	Ripple (mA)	D×L mm	Ripple (mA)	D×L mm	Cap(μF)	D×L mm	Ripple (mA)	D×L mm	Ripple (mA)	D×L mm	Ripple (mA)
0.1	-	-	-	-	-	-	-	-	-	-	-	-	4×5.4	1.0
0.22	-	-	-	-	-	-	-	-	-	-	-	-	4×5.4	2.6
0.33	-	-	-	-	-	-	-	-	-	-	-	-	4×5.4	3.2
0.47	-	-	-	-	-	-	-	-	-	-	-	-	4×5.4	3.8
1.0	-	-	-	-	-	-	-	-	-	-	-	-	4×5.4	6.3
2.2	-	-	-	-	-	-	-	-	-	-	4×5.4	7.5	4×5.4	11
3.3	-	-	-	-	-	-	-	-	-	-	4×5.4	9	4×5.4	14
4.7	-	-	-	-	-	-	-	-	4×5.4	13	4×5.4	15	5×5.4	19
10	-	-	-	-	-	-	4×5.4	18	5×5.4	23	5×5.4	25	6.3×5.4	30
22	4×5.4	22	4×5.4	22	5×5.4	27	5×5.4	30	6.3×5.4	38	6.3×5.4	42	6.3×7.7	51
33	5×5.4	30	5×5.4	30	5×5.4	35	6.3×5.4	40	6.3×5.4	48	6.3×7.7	59	6.3×7.7	60
47	5×5.4	36	5×5.4	36	6.3×5.4	46	6.3×5.4	50	6.3×7.7	66	6.3×7.7	63	6.3×7.7	63
100	6.3×5.4	60	6.3×5.4	60	6.3×5.4	60	6.3×5.4	60	6.3×7.7	91	6.3×7.7	84	8×10.5	140
150	6.3×5.4	86	6.3×5.4	86	6.3×7.7	86	6.3×7.7	95	8×10.5	140	8×10.5	155	10×10.5	180
220	6.3×7.7	102	6.3×7.7	102	6.3×7.7	105	6.3×7.7	105	8×10.5	155	8×10.5	190	10×10.5	220
330	6.3×7.7	105	6.3×7.7	105	8×10.5	195	8×10.5	195	8×10.5	190	10×10.5	300	-	-
470	8×10.5	210	8×10.5	210	8×10.5	210	8×10.5	230	10×10.5	300	-	-	-	-
680	8×10.5	210	8×10.5	210	10×10.5	310	10×10.5	310	-	-	-	-	-	-
1000	8×10.5	230	8×10.5	230	10×10.5	310	-	-	-	-	-	-	-	-

## ■ Ripple Current: 105°C, 120Hz

The specific capacitance and case size are available on request.