CD50S SERIES

ALUMINUM ELECTROLYTIC CAPACITORS

- Load life of 1000 hours at 85℃
- 5mm height
- VTR, digital cameras car radios, micro cassette tape recorder etc.

■ SPECIFICATIONS

Item	Characteristics
Operating Temperature Range(℃)	-40～+85
Rated Voltage Range (V)	4~50
Nominal capacitance range(μF)	0.1~470
Capacitance Tolerance(20℃, 120Hz)	±20%
Leakage Current (μA)	I≤0.01CV or 3 whichever is greater. (at 20℃,after 2 minutes) C: Nominal Capacitance (μF) V: Rated Voltage (V)

Dissipation Factor(20℃,120Hz)

Rated voltage (v)		4	6.3	10	16	25	35	50
tanδ	φ3-φ6.3	0.35	0.24	0.20	0.16	0.14	0.12	0.10
	φ8	0.39	0.28	0.24	0.16	0.14	0.12	0.10

Temperature Stability(120Hz)

Rated voltage (v)		4	6.3	10	16	25	35	50
Impedance Ratio	z-25℃/z+20℃	6	4	3	2			
	z-40℃/z+20℃	16	10	8	6	4		

Load Life(+85℃)

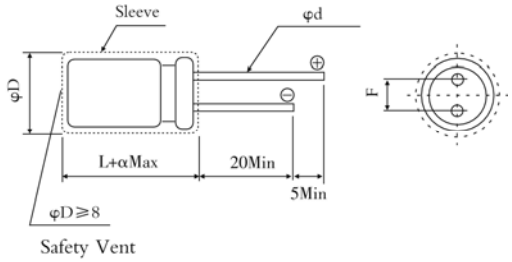
Time	1000hours
Leakage current	Not more than the specified value.
Capacitance change	within±20% of initial value
Dissipation	Not more than 200% of the specified value.

Shelf Life(+85℃)

Time	500hours
Leakage current	Not more than the specified value.
Capacitance change	within±20% of initial value
Dissipation	Not more than 200% of the specified value.

After test: Rated voltage to be applied for 30 minutes, 24 to 48 hours before measurement.

■ DIMENSIONS MM



Lead spacing and diameter

φD±0.5	3	4	5	6.3	8
F±0.5	1.0	1.5	2.0	2.5	
φd±0.1	0.4	0.45			
a	0~+1.0				

■ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq(Hz) / Rated voltage(v)	50,60	120	1K	10K-100K
4~16	0.80	1	1.1	1.2
25~35	0.80	1	1.5	1.7
50	0.80	1	1.6	1.9

Temperature coefficient

Temperature(℃)	+70	+85
Coefficient	1.35	1

■ STANDARD RATINGS

WV(V)	4		6.3		10		16		25		35		50	
Cap(μF)	Size(mm) φDxL	Ripple (mA)	Size(mm) φDxL	Ripple (mA)	Size(mm) φDxL	Ripple (mA)	Size(mm) φDxL	Ripple (mA)	Size(mm) φDxL	Ripple (mA)	Size(mm) φDxL	Ripple (mA)	Size(mm) φDxL	Ripple (mA)
0.1	-	-	-	-	-	-	-	-	-	-	-	-	3x5	3
													4x5	3
0.22	-	-	-	-	-	-	-	-	-	-	-	-	3x5	4
													4x5	5
0.33	-	-	-	-	-	-	-	-	-	-	-	-	3x5	5
													4x5	6
0.47	-	-	-	-	-	-	-	-	-	-	-	-	3x5	6
													4x5	7
1	-	-	-	-	-	-	-	-	-	-	-	-	3x5	8
													4x5	10
2.2	-	-	-	-	-	-	-	-	-	-	3x5	11	4x5	15
											4x5	14		
3.3	-	-	-	-	-	-	-	-	3x5	13	4x5	17	4x5	18
									4x5	15				
4.7	-	-	-	-	-	-	3x5	14	4x5	18	4x5	20	5x5	25
							4x5	17						
10	-	-	3x5	17	4x5	22	4x5	25	5x5	30	5x5	30	6.3x5	40
			4x5	20										
22	3x5	21	4x5	30	5x5	35	5x5	40	6.3x5	50	6.3x5	55	8x5	75
	4x5	25												
33	4x5	30	5x5	40	5x5	45	6.3x5	60	6.3x5	65	8x5	80	8x5	90
47	4x5	35	5x5	50	6.3x5	65	6.3x5	70	8x5	95	8x5	100	-	-
100	5x5	60	6.3x5	85	6.3x5	95	8x5	125	8x5	135	-	-	-	-
220	6.3x5	105	8x5	145	8x5	155	-	-	-	-	-	-	-	-
330	8x5	150	8x5	175	-	-	-	-	-	-	-	-	-	-
470	8x5	180	-	-	-	-	-	-	-	-	-	-	-	-

■ Ripple Current: 85℃,100Hz or 120Hz.

The specific capacitance and case size are available on request.