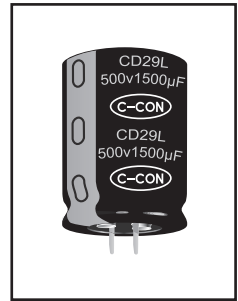


5000h at 85°C

- Larger Size Components
- Long Useful Life
- High Ripple Current
- Industrial Power Supplies

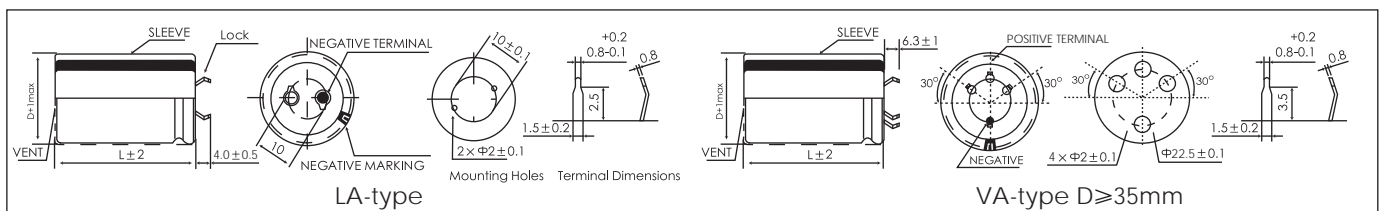


Items	Characteristics				
Operating Temperature Range (°C)	-40 ~ +85	-25 ~ +85			
Voltage Range (V)	160 ~ 400	450 ~ 500			
Capacitance Range (μF)	390 ~ 4700				
Capacitance Tolerance (20°C, 120Hz)	± 20%				
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C: Nominal Capacitance (μF) V: Rated Voltage (V)				
Dissipation Factor (20°C, 120Hz)	0.15				
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	160~200	250~400	450	500
	$Z_{-25°C} / Z_{+20°C}$	3	4		
	$Z_{-40°C} / Z_{+20°C}$	6	8	-	

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	7000h	>100000h	5000h	5000h	1000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 30% of initial value		Within ± 20% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	$U_R$ $I_R$ 85°C	$U_R$ $1.2 \times I_R$ 40°C	$U_R$ $I_R$ 85°C	$U_R$ $I_R = 0$ 85°C	$U_R = 0$ $I_R = 0$ 85°C After test: $U_R$ to be applied for 30min >24h before measurement

## Dimensions

mm



## Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85	
Coefficient	≥160V	1.7	1.5	1.3	1.0

## Frequency Coefficient

Rated Voltage (V)	Frequency						
	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz	
≥ 160	0.80	1.00	1.16	1.30	1.41	1.45	

Ratings for CD 29L Series

$U_R$ (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size ΦD x L
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
160 (200) 2C	2200	91	63	4.9	35×45
	2700	74	52	5.3	35×50
	3300	60	42	5.5	35×70
		60	42	5.5	40×60
	3900	51	36	5.9	35×80
200 (250) 2D	4700	42	30	7.3	40×80
	1500	133	93	4.3	35×40
	1800	111	77	4.7	35×45
	2200	91	63	5.4	35×50
		91	63	5.4	40×40
	2700	74	52	5.9	35×60
		74	52	5.9	40×50
	3300	60	42	6.5	35×80
		60	42	6.5	40×60
	3900	51	36	7.0	40×80
4700	42	30	9.2	40×90	
250 (300) 2E	1000	199	139	3.5	35×35
	1200	166	116	3.6	35×40
	1500	133	93	4.2	35×45
		111	77	4.6	35×50
	1800	111	77	4.6	40×40
		91	77	5.1	35×60
	2700	74	63	6.0	40×60
400 (450) 2G	560	355	249	3.0	35×45
		355	249	2.8	40×40
	680	293	205	3.5	35×50
		293	205	3.3	40×40
	820	242	170	3.8	35×50
		242	170	4.1	40×50
	1000	199	139	4.4	35×55
		199	139	4.8	40×60
	1200	166	116	5.3	35×70
		166	116	5.5	40×60
	1500	133	93	6.5	40×80
		133	93	6.3	45×60
	1800	111	77	7.3	35×90
		111	77	7.9	40×100
2200	91	63	8.6	40×100	
	91	63	8.1	45×80	
450 (500) 2W	470	424	296	2.7	35×45
	560	355	249	3.1	35×50
		355	249	3.1	40×40
	680	293	205	3.5	35×60
		293	205	3.4	40×50
	820	243	170	4.4	35×70
		243	170	4.4	40×60
	1000	199	139	5.2	35×80
		199	139	5.2	40×60
	1200	166	116	5.9	40×70
		166	116	6.0	45×60
	1500	133	93	6.8	40×85
133		93	6.7	45×70	
1800	111	77	7.6	40×100	
2200	91	64	8.6	45×100	
500 (550) 2H	390	510	357	2.4	35×45
	470	424	296	2.8	35×50
	560	355	249	3.3	35×60
		355	249	3.3	40×50
	680	293	205	3.8	35×70
		293	205	3.7	40×60
	820	243	170	4.6	35×80
		243	170	4.6	40×70
	1000	199	139	5.4	40×80
		199	139	5.4	45×70
	1200	166	116	6.4	40×90
	1500	133	93	7.2	40×100

Lifetime Diagram

