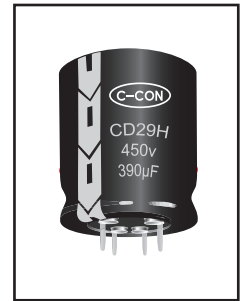


3000h at 105°C

- Long Useful Life
- Highest Ripple Current
- Industrial Power Supplies and Inverters



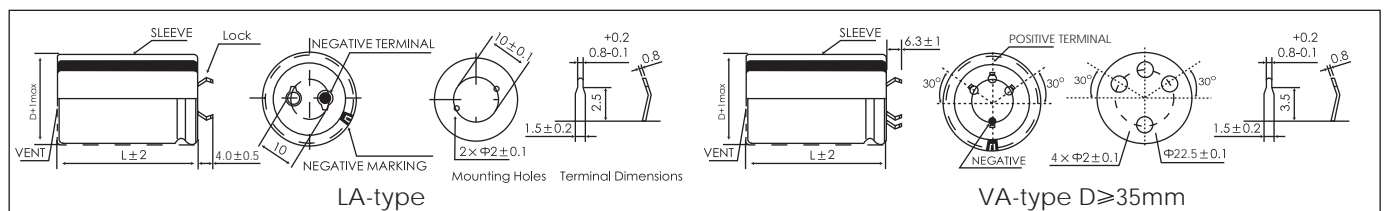
SNAP-IN/LUG

Items	Characteristics										
Operating Temperature Range (°C)	-40 ~ +105										
Voltage Range (V)	200 ~ 450										
Capacitance Range (µF)	150 ~ 2200										
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)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <th>200</th> <th>250</th> <th>350</th> <th>400-450</th> </tr> <tr> <td>Tan δ (max)</td> <td colspan="3">0.15</td> <td>0.12</td> </tr> </table>	Rated Voltage (V)	200	250	350	400-450	Tan δ (max)	0.15			0.12
	Rated Voltage (V)	200	250	350	400-450						
Tan δ (max)	0.15			0.12							
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1"> <tr> <th>Rated Voltage (V)</th> <th>200 ~ 450</th> </tr> <tr> <td>Z<sub>-25°C</sub> / Z<sub>+20°C</sub></td> <td>4</td> </tr> <tr> <td>Z<sub>-40°C</sub> / Z<sub>+20°C</sub></td> <td>8</td> </tr> </table>	Rated Voltage (V)	200 ~ 450	Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	4	Z <sub>-40°C</sub> / Z <sub>+20°C</sub>	8				
	Rated Voltage (V)	200 ~ 450									
	Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	4									
Z <sub>-40°C</sub> / Z <sub>+20°C</sub>	8										

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	5000h	>100000h	3000h	3000h	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 130% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U <sub>R</sub> I <sub>R</sub> 105°C	U <sub>R</sub> 1.4 x I <sub>R</sub> 50°C	U <sub>R</sub> I <sub>R</sub> 105°C	U <sub>R</sub> I <sub>R</sub> = 0 105°C	After test: U <sub>R</sub> to be applied for 30min I <sub>R</sub> = 0 >24h before measurement

## Dimensions

mm



## Frequency Coefficient

Frequency	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz
Coefficient	0.80	1.00	1.16	1.30	1.41	1.45

## Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85	+105
Coefficient	2.7	2.5	2.1	1.7	1.0

## Ratings for CD 29H Series

U <sub>s</sub> (Surge Voltage) Code	Rated Capa- citan- ce	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD × L
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
200 (250) 2D	470	424	260	1.53	22×35
	560	355	220	1.65	25×35
	680	293	180	1.92	25×40
	820	243	150	2.1	30×30
	1000	199	120	2.4	30×40
		199	120	2.4	35×35
	1200	166	100	2.71	30×40
	1500	133	80	3.13	25×50
	1800	111	68	3.9	30×50
2200	91	56	4.5	35×50	
250 (300) 2E	330	603	380	1.23	22×35
		603	380	1.35	25×30
	470	424	268	1.52	25×35
		424	268	1.65	30×30
	560	355	225	1.85	25×45
	680	293	185	2.2	25×50
		293	185	2.18	30×35
	820	243	153	2.25	30×35
	1000	199	125	2.9	30×50
		199	125	2.9	35×40
1200	166	105	2.97	35×35	
1500	133	85	3.8	35×50	
400 (450) 2G	150	1062	575	0.85	22×40
		1062	575	0.85	25×35
	180	885	479	1	22×50
		885	479	1	25×40
	220	724	292	1.2	25×45
		724	292	1.15	30×25
	270	590	319	1.25	22×50
		590	319	1.35	35×30
	330	483	260	1.44	25×45
		483	260	1.35	30×30
	390	408	220	1.72	25×50
		408	220	1.8	35×40
	470	339	183	2	30×50
		339	183	2.1	35×45
	560	284	154	1.98	35×35
		284	154	2.2	35×45
284		154	2.3	35×50	
680	234	127	2.58	35×55	
820	194	105	2.84	35×60	
450 (500) 2W	150	1062	530	0.84	22×35
		1062	530	0.84	25×30
		1062	530	0.88	30×25
	180	885	440	0.88	25×30
		885	440	0.92	30×25
	220	724	360	1.1	25×40
		724	360	1.1	30×30
	270	590	295	1.36	30×30
		590	295	1.41	30×35
	330	483	240	1.44	30×30
		483	240	1.49	30×35
		483	240	1.65	35×40
	390	408	205	1.67	25×50
		408	205	1.55	30×35
		408	205	1.6	35×30
	470	339	170	1.92	30×45
339		170	2.1	35×40	

U <sub>s</sub> (Surge Voltage) Code	Rated Capa- citan- ce	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD × L
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
450 (500) 2W	470	339	170	2.2	35×50
	560	284	142	2.1	30×50
		284	142	2.3	35×45
	680	234	116	2.5	35×50
	820	195	95	2.72	30×60
		195	97	3	35×60

## Lifetime Diagram

