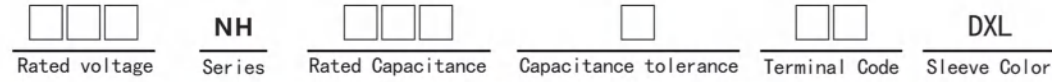
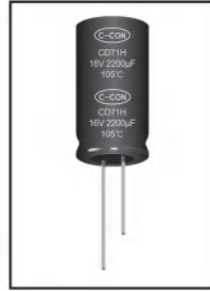


NH CD71H

C-CON MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

2000h at 105°C

- Load life of 2000 hours at 105°C
- Bi-polar

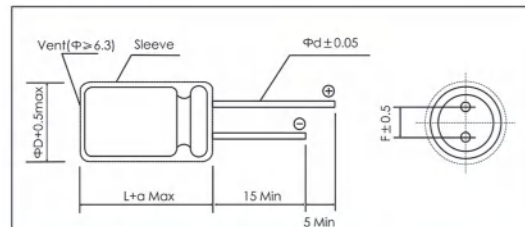


Items	Characteristics																																	
Operating Temperature Range (°C)	-55 ~ +105																																	
Rated Voltage Range (V)	6.3 ~ 160																																	
Capacitance Tolerance (20°C, 120Hz)	± 20%																																	
Leakage Current (µA)	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.06CV or 10, whichever is greater. C: Nominal Capacitance (µF) V: Rated Voltage (V)																																	
Dissipation Factor (20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.24</td> <td>0.24</td> <td>0.20</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.15</td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	160	Tan δ (max)	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10	0.10	0.15											
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Tan δ (max)	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10	0.10	0.15																								
When nominal capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF																																		
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160</th> </tr> </thead> <tbody> <tr> <td>Z_{-25°C} / Z_{+20°C}</td> <td>4</td> <td>3</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>Z_{-40°C} / Z_{+20°C}</td> <td>10</td> <td>8</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td>-</td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	160	Z _{-25°C} / Z _{+20°C}	4	3				2				4	Z _{-40°C} / Z _{+20°C}	10	8	6					4		-
	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	160																							
Z _{-25°C} / Z _{+20°C}	4	3				2				4																								
Z _{-40°C} / Z _{+20°C}	10	8	6					4		-																								

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h	180000h	2000h	2000h	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 ± 50% 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 150% of specified value	Not more than 150% of specified value	Not more than 150% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U _r I _r 105°C	U _r 1.4 × I _r 40°C	U _r I _r 105°C	U _r I _r = 0 105°C	After test: U _r to be applied for 30min >24h before measurement

Note: The life test excluding shelf life should be conducted with the polarity inverted every 250hrs.

Dimensions



ΦD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5		5.0		7.5
Φd		0.5		0.6			0.8
a		1.5				2.0	

mm

Frequency Coefficient

Frequency	50~60Hz	120Hz	1kHz	10kHz	100kHz
Capacitance (µF)					
0.47 ~ 4.7	0.65	1.00	1.35	2.30	2.50
10 ~ 47	0.75	1.00	1.25	1.75	1.80
100 ~ 1000	0.80	1.00	1.15	1.40	1.50
2200 ~ 6800	0.85	1.00	1.03	1.08	1.08

Temperature Coefficient

Temperature (°C)	+85	+105
Coefficient	1.35	1

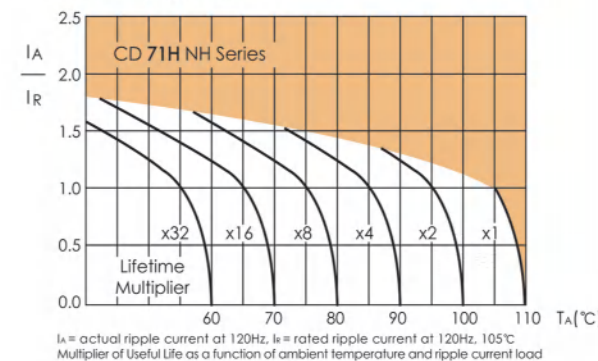
C-CON MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

NH CD71H

Ratings for CD 71H Series

U _r (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	
(V)	(µF)	(Ω)	(mA _{rms})	(mm)	
6.3 (7.2) 0J	33	9.7	45	5×11.5	
	47	6.8	54	5×11.5	
	100	3.2	90	6.3×11.5	
	220	1.5	150	8×11.5	
	330	0.97	185	8×11.5	
	470	0.68	260	10×12.5	
	1000	0.32	460	10×20	
	2200	0.16	820	12.5×25	
	3300	0.11	1110	16×25	
	4700	0.09	1430	16×31.5	
10 (13) 1A	22	15	37	5×11.5	
	33	9.7	45	5×11.5	
	47	6.8	54	5×11.5	
	100	3.2	90	6.3×11.5	
	220	1.5	150	8×11.5	
	330	0.97	240	10×16	
	470	0.68	290	10×16	
	1000	0.32	510	12.5×20	
	2200	0.16	910	16×25	
	3300	0.11	1200	16×31.5	
16 (20) 1C	4700	0.09	1520	18×35.5	
	10	27	27	5×11.5	
	22	12	40	5×11.5	
	33	8.0	49	5×11.5	
	47	5.7	67	6.3×11.5	
	100	2.7	110	8×11.5	
	220	1.2	195	10×12.5	
	330	0.80	265	10×16	
	470	0.57	345	10×20	
	1000	0.27	605	12.5×25	
25 (32) 1E	2200	0.13	1070	16×31.5	
	3300	0.10	1400	18×35.5	
	10	27	27	5×11.5	
	22	12	46	6.3×11.5	
	33	8.0	56	6.3×11.5	
	47	5.7	67	6.3×11.5	
	100	2.7	110	8×11.5	
	220	1.2	215	10×16	
	330	0.80	320	12.5×20	
	470	0.57	380	12.5×20	
35 (44) 1V	1000	0.27	670	16×25	
	2200	0.13	1140	18×35.5	
	4.7	45	21	5×11.5	
	10	21	30	5×11.5	
	22	9.7	51	6.3×11.5	
	33	6.4	72	8×11.5	
	47	4.5	86	8×11.5	
	100	2.1	160	10×12.5	
	220	0.97	290	10×20	
	330	0.64	350	12.5×25	
50 (63) 1H	470	0.45	465	16×25	
	1000	0.21	805	16×31.5	
	0.47	282	8	5×11.5	
	1	133	12	5×11.5	
	2.2	60	20	6.3×11.5	
	3.3	40	25	6.3×11.5	
	4.7	28	30	6.3×11.5	
	10	13	50	8×11.5	
	22	6.0	97	10×16	
	33	4.0	140	12.5×20	
63 (79) 1J	47	2.8	170	12.5×20	
	100	1.3	300	16×25	
	220	0.60	510	18×35.5	
	3.3	60	45	10×16	
	4.7	42	55	10×16	
	10	20	103	12.5×20	
	22	9.1	168	12.5×25	
	33	6.01	228	16×25	
	47	4.21	312	16×35.5	
	100	2.0	403	18×35.5	
80 (100) 1K	0.47	282	8	5×11.5	
	1	133	12	5×11.5	
	2.2	60	20	6.3×11.5	
	3.3	40	25	6.3×11.5	
	4.7	28	30	6.3×11.5	
	10	13	50	8×11.5	
	22	6.0	97	10×16	
	33	4.0	140	12.5×20	
	47	2.8	170	12.5×20	
	100	1.3	300	16×25	
100 (125) 2A	220	0.60	510	18×35.5	
	3.3	60	45	10×16	
	4.7	42	55	10×16	
	10	20	103	12.5×20	
	22	9.1	168	12.5×25	
	33	6.01	228	16×25	
	47	4.21	312	16×35.5	
	100	2.0	403	18×35.5	
	160 (200) 2C	0.47	282	8	5×11.5
		1	133	12	5×11.5
2.2		60	20	6.3×11.5	
3.3		40	25	6.3×11.5	
4.7		28	30	6.3×11.5	
10		13	50	8×11.5	
22		6.0	97	10×16	
33		4.0	140	12.5×20	
47		2.8	170	12.5×20	
100		1.3	300	16×25	

Lifetime Diagram



I_r = actual ripple current at 120Hz, I_r = rated ripple current at 120Hz, 105°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load