

ALUMINUM ELECTROLYTIC CAPACITOR (CD81H RT)

RT FEATURES

- Height temperature radial lead type
- $\Phi D \geq 8\text{mm}$ with top safety vent construction
- Ideally suited for high temperature use

SPECIFICATIONS

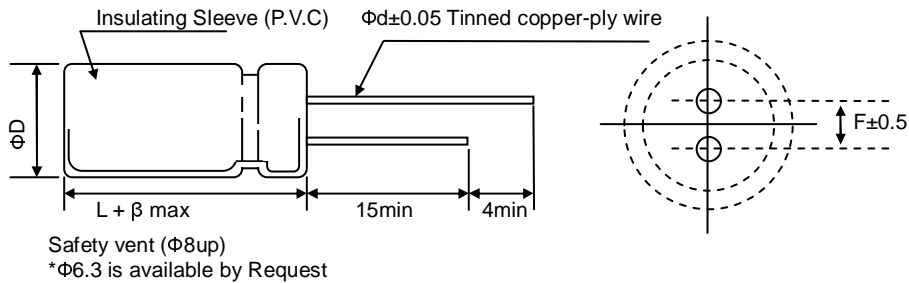
Item	Performance Characteristics									
Rated Voltage Range	6.3V.DC~100V.DC									
Operating Temperature Range	-55°C~+105°C									
Nominal Capacitance Range	0.1 μF ~10000Mf									
Capacitance Tolerance	$\pm 20\%$ (M ,+25°C,120Hz)									
Leakage Current	After application of rated voltage for 2 minutes: $I \leq 0.01CV$ or $3\mu\text{A}$ (Whichever is greater)25°C C: Nominal Capacitance in μF ; V: Rated Working Voltage in V									
Dissipation Factor ($\tan\delta$)	When capacitance is over 1000 μF , $\tan\delta$ shall be added 0.02 with increase of every 1000 μF									
	Rated Working Voltage(V)	6.3	10	16	25	35	50	63	100	
	$\tan\delta$ (MAX) (25°C,120Hz)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	
Temperature Stability	Rated Working Voltage(V)	6.3	10	16	25	35	50	63	100	
	Impedance	-25°C/Z+20°C	4	3	2					
	Ratio(120Hz)	-40°C/Z+20°C	6	5	4	3				
Load Life	After application of rated working voltage and maximum permissible ripple current specified at +105°C for 2000hours, Capacitors meet the characteristics requirements measured at +25°C list ed below:									
	Leakage Current			Less than the initial specified value						
	$\tan\delta$			Less than 200% of the initial specified value						
	Capacitance Change			Within $\pm 20\%$ of the initial measured value						
Shelf Life	After Leaving capacitor under no load at +105°C for 1000 hours, Capa citors meet the characteristics listed above.									

MULTIPLIER FOR RIPPLE CURRENT

Temperature coefficient

Ambient Temperature(°C)	+105	+85	+65
Factor	1.0	1.7	2.1

CASE SIZE TABLE



β	0.5		1.0				
ΦD	5	6.3	8	10	12 13	16	18
$F \pm 0.5$	2.0	2.5	3.5	5		7.5	
$\Phi d \pm 0.1$	0.5		0.6		0.8		
L	11		12,16	14,17,20	20,25	25,30	30,35,40
α	1.0		$L < 17: 1.0; L \geq 17: 2.0$				

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DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

V uF	6.3		10		16		25		35		50		63		100	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
0.1											5X11	1.0				
0.15											5X11	1.9				
0.22											5X11	2.5				
0.33											5X11	4				
0.47											5X11	7				
0.68											5X11	10				
1											5X11	13			5X11	15
1.5											5X11	15			5X11	16
2.2											5X11	20			5X11	21
3.3											5X11	25			5X11	30
4.7							5X11	25	5X11	28	5X11	32			5X11	35
6.8							5X11	27	5X11	31	5X11	35			6.3X11	46
10					5X11	35	5X11	36	5X11	41	5X11	46	5X11	48	6.3X11	60
15					5X11	41	5X11	44	5X11	47	5X11	52	6.3X11	60	6.3X11	75
22			5X11	45	5X11	54	5X11	58	5X11	61	5X11	68	6.3X11	80	8X12	98
33	5X11	55	5X11	58	5X11	65	5X11	69	5X11	77	6.3X11	94	6.3X11	100	8X12	140
47	5X11	65	5X11	68	5X11	80	5X11	84	6.3X11	100	6.3X11	115	8X12	140	10X14	185
68	5X11	73	5X11	80	6.3X11	100	6.3X11	107	6.3X11	130	8X12	153	8X16	170	10X20	230
100	5X11	96	6.3X11	105	6.3X11	130	6.3X11	140	8X12	170	8X12	200	8X16 (10X14)	230	10X20	290
150	6.3X11	123	6.3X11	134	6.3X11	169	8X12	184	8X12	153	10X17	269	10X20	310	13X25	350
220	6.3X11	160	6.3X11	175	8X12	220	8X12	240	8X16 (10X14)	200	10X17	350	10X20	390	13X25	560
330	8X12	210	8X12	235	8X12	270	8X16 (10X14)	335	10X17	400	10X20	470	13X20	540	16X25	690
470	8X12	275	8X12	295	8X16 (10X14)	375	10X17	440	10X20	525	13X20	600	13X25	700	16X30	880
680	8X12	353	10X17	415	10X17	492	10X20	569	13X20	665	13X25	815	16X25	923	18X35	1120
1000	8X16 (10X14)	460	10X17	540	10X20	640	12X20	740	13X25	865	16X25	1060	16X30	1200	18x40	1400
1500	10X20	596	10X20	700	13X20	807	13X25	946	16X25	1053	16X30	1230	18X30	1560		
2200	10X20	775	12X20	860	13X25	1050	16X25	1230	16X30	1373	18X30	1600	18X40	1920		
3300	13X20	985	13X25	1100	16X25	1300	16X30	1500	18X35	1680	18X40					
4700	16X25	1150	16X25	1350	16X30	1650	18X30	1800	18X40	1920						
6800	16X25	1480	16X30	1700	18X35	1900	18X40	2050								
10000	16X30	1700	18X35	1950	18X40	1950										

(1) Case Size DxL(mm)

(2) Max allowable ripple current (mArms +105°C,120Hz)