

# ALUMINUM ELECTROLYTIC CAPACITOR (CD137 GH)

## GH FEATURES

- High reliability, lug terminal type
- High ripple current
- Suited for smoothing circuits for general purpose inverter and control circuits for F.A machines
- Designed for use as input filter capacitor for current U.P.S

## SPECIFICATIONS

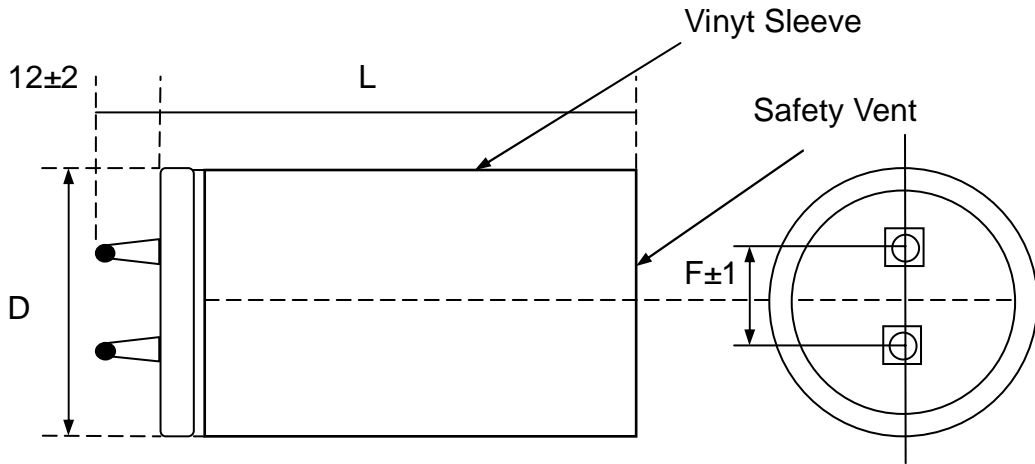
Item	Performance Characteristics
Rated Voltage Range	-25°C~85°C
Operating Temperature Range	350V.DC~450V.DC
Nominal Capacitance Range	180 μF~10000μF
Capacitance Tolerance	±20%
Leakage Current	$I=3\sqrt{cv}$ ( μA) (for 5 minutes)
Dissipation Factor(tanδ)	$\tan\delta\leq 0.25(20^\circ\text{C}, 100\text{Hz})$
Load Life	After applying rated voltage for 2000 hours at +85°C capacitors meet characteristics requirements measured at +25°C listed below : Capacitance change : ±20% Initial measured value Leakage current : ≤2 Initial specified value Dissipation factor : ≤3 Initial specified value
Shelf Life	After leaving capacitors under no load for 1000 hours at +85°C, capacitors meet the characteristics listed above

## MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency(Hz)	50(60)	100(120)	400	1k	10k
Coefficient	0.8	1.0	1.1	1.13	1.18

## CASE SIZE TABLE



$D\pm 1.5$	35		50
$L\pm 3.0$	50 60 80 100 120		80 100 120
$F\pm 1.0$	12.0		21.5
$D\pm 1.5$	65	80	90
$L\pm 3.0$	100 120 140	120 140	130 140 150
$F\pm 1.0$	26.5	32.5	32.5

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### DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

	350			400			450		
	ΦDxL(mm)	Ripple current (A rms)		ΦDxL(mm)	Ripple current (A rms)		ΦDxL(mm)	Ripple current (A rms)	
		40℃ 120Hz	85℃ 120Hz		40℃ 120Hz	85℃ 120Hz		40℃ 120Hz	85℃ 120Hz
180							35x50	2.9	1.0
220				35x50	3.0	1.1	35x50	3.2	1.1
270	35x50	3.3	1.2	35x50	3.3	1.2	35x50	3.6	1.2
330	35x50	3.7	1.3	35x50	3.9	1.4	35x60	4.4	1.5
390	35x50	4.3	1.5	35x60	4.3	1.5	35x80	4.8	1.7
470	35x60	4.7	1.6	35x80	5.3	1.8	35x80	5.8	2.0
560	35x80	5.8	2.0	35x80	6.3	2.2	35x100	6.3	2.2
680	35x80	6.4	2.2	35x100	7.0	2.4	35x120	7.5	2.6
820	35x100	7.7	2.7	35x100	8.3	2.9	50x80	8.0	2.8
1000	35x100	9.2	3.2	50x80	8.8	3.1	50x80	9.6	3.4
1200	50x80	9.7	3.4	50x80	9.7	3.4	50x100	10.6	3.7
1500	50x80	10.8	3.8	50x100	11.8	4.1	50x120	12.7	4.4
1800	50x100	12.9	4.5	50x100	13.9	4.9	65x100	13.8	4.8
2200	50x100	15.4	5.4	50x120	16.4	5.7	65x100	16.3	5.7
2700	65x100	18.2	6.4	65x100	18.1	6.3	65x120	19.2	6.7
3300	65x120	20.0	7.0	65x120	21.3	7.4	80x120	20.6	7.2
3900	65x120	23.1	8.1	65x120	24.4	8.6	80x120	23.7	8.3
4700	80x120	26.8	9.4	80x120	26.0	9.1	80x140	27.5	9.6
5600	80x140	28.4	10.0	80x140	30.0	10.5	90x140	31.3	10.9
6800	90x140	33.0	11.6	90x130	34.5	12.1	90x150	36.3	12.7
8200	90x140	37.8	13.2	90x140	39.8	13.9			
10000	90x150	44.0	15.4	90x150	44.0	15.4			