CD 13H BH SERIES

2000h at 85℃

■ Features

●600V to 630V standard at 85℃

●RoHS Compliant

■ Applications

●High Professional Inverters and Power Supplies

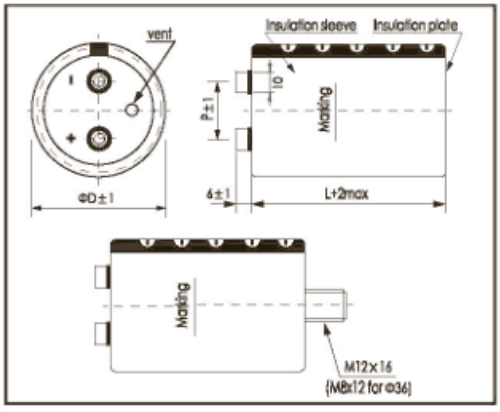
CD 135 BP → 600V,630V → CD 13H BH

Items	Characteristics
Operating Temperature Range(°C)	-25~+85
Voltage Range (V)	600,630
Capacitance Range(μF)	1000~5600
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 5mA, whichever is smaller . C: Nominal Capacitance(μF) V: Rated Voltage(V)
Dissipation Factor (20°C, 120Hz)	U_R (V): 600 / 630; Tan δ .max: 0.25 / 0.30

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	＞4000h	＞65000h	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 ±30% of initial value		Within ±20% of initial value	Within ±10% 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 than130% 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 60min>24h before measurement

Dimensions mm



ΦD/mm	51	64	77	90	101
P/mm	22.0	28.2	31.4	31.4	41.5

*Hex head screw M5 x 10 and M6 x 12 are standard screws. Longer screws are available on request.
*Max tightening torque for screw terminal M5: 3Nm, M6: 6Nm. Max troque for bolt mounting M12: 12.5Nm.
*Screws, Bracket and cap nut will be delivered separately. See "Accessories" (page 94.95) for shape and dimensions.

Part Number System (Ex: 630v2200μF)

ECG J2 BH 222 M F 131 Y □

- □: *Terminals
- Y: Mounting Style (B Bolt Mounting; Y 3-leg Bracket; I 2-leg Bracket; N No Bracket)
- 131: Length(131mm) / Diameter Code

Diameter	Code
36mm	A
51mm	C
64mm	D
77mm	E
90mm	F
100mm	G

- F: Capacitance Tolerance(±20%)
- M: Rated Capacitance(2200μF)
- 222: Series Code (CD13H)
- BH: Rated Voltage
- J2: Electrolytic Capacitor Screw Type
- ECG

*See page 95 for detailed dimensions of terminals.

Ripple Current Coefficient

Frequency (Hz)	50/60	120	300	1k	>10k
Coefficient	0.80	1.00	1.10	1.30	1.40

Ambient Temp (℃)	40	60	85
Coefficient	1.89	1.67	1.00

The useful life can be prolonged by operating capacitor at loads below the rated values (e.g. lower operating voltage, Rms ripple current or ambient temperature) and by appropriate cooling measures.
It is advisable not to apply a ripple current exceeding the rated ripple current without any cooling measures as this will shorten capacitor' s life.

CD 13H BH SERIES

Ratings for CD 13H BH Series

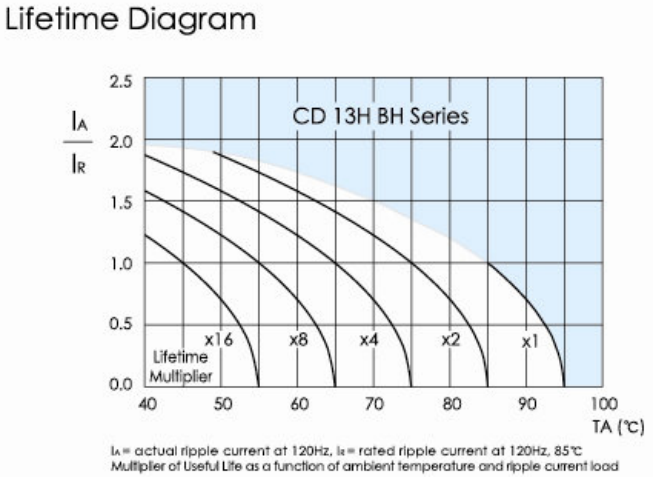
U_R (Surge Voltage) Code	Rated Capacitance	Max. ESR 20℃, 120Hz	Typ ESR 20℃, 120Hz	Rated Ripple Current 85℃, 120Hz	Size ΦDxL	P/N
(v)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
600 (650) 2S	1200	242	121	7.7	64X96	ECG2SBH122MD096 □□
	1500	224	112	9.3	64X115	ECG2SBH152MD115 □□
	1800	194	97	10.1	77X96	ECG2SBH182ME096 □□
	2200	162	81	12.0	77X115	ECG2SBH222ME115 □□
	2700	132	66	14.0	77X130	ECG2SBH272ME130 □□
	3300	88	44	16.4	77X155	ECG2SBH332ME155 □□
	3300	88	44	16.4	90X131	ECG2SBH332MF131 □□
	3900	74	37	17.8	90X131	ECG2SBH392MF131 □□
	4700	62	31	21.0	90X157	ECG2SBH472MF157 □□
	5600	56	28	24.5	90X196	ECG2SBH562MF196 □□
630 (680) J2	1000	300	150	6.0	64X130	ECGJ2BH102ME130 □□
	1200	266	133	6.7	77X115	ECGJ2BH122ME115 □□
	1500	212	106	8.1	77X130	ECGJ2BH152ME130 □□
	1800	176	88	9.8	77X155	ECGJ2BH182ME155 □□
	2200	144	72	10.7	90X131	ECGJ2BH222MF131 □□
	2700	128	64	12.8	90X157	ECGJ2BH272MF157 □□
	3300	106	53	14.7	90X171	ECGJ2BH332MF171 □□
	3900	94	47	17.9	90X196	ECGJ2BH392MF196 □□
	4700	78	39	21.6	90X196	ECGJ2BH472MF196 □□
	5600	70	35	24.9	101X220	ECGJ2BH562MG220 □□

Mounting code(" B" for bolt mounting, "Y/I/N" for bracket mounting)

Terminal options(A,B,C see "Dimensions" for details.)

Customer products are available on request.

Lifetime Diagram



I_A = actual ripple current at 120Hz, I_R = rated ripple current at 120Hz, 85℃
Multiplier of Useful Life as a function of ambient temperature and ripple current load