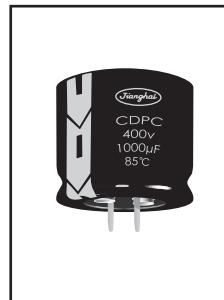


2000h at 85°C

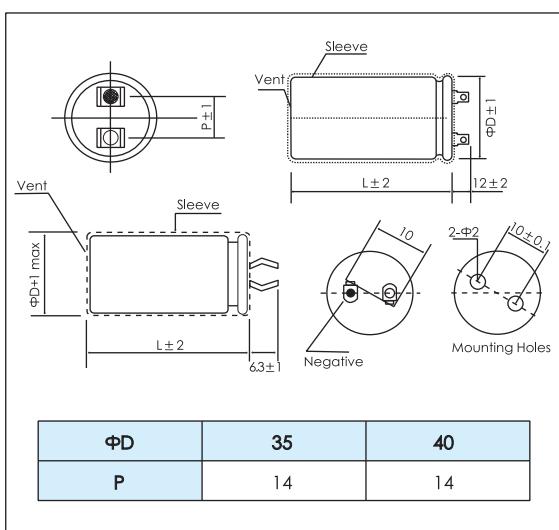
- SNAP-IN/LUG
- Withstands high-ripple current generated by the voltage doubler rectifier system of an inverter air conditioner.
 - Adopting special electrode foil and electrolyte exclusive to this series has made high reliability a reality.
 - Capacitors for voltage doubler rectifiers are available in pairs in a series.



Items	Characteristics
Operating Temperature Range (°C)	-25 ~ 85
Rated Voltage Range (V)	250, 400V
Capacitance Range (μF)	45 ~ 440
Capacitance Tolerance(20°C, 120Hz)	±10%
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)	Less than 0.05

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h		≥65000h	2000h	2000h
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 200% 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 I _R 40°C	U _R I _R 85°C	U _R I _R = 0 85°C	After test: U _R to be applied for 30min I _R = 0 85°C >24h before measurement

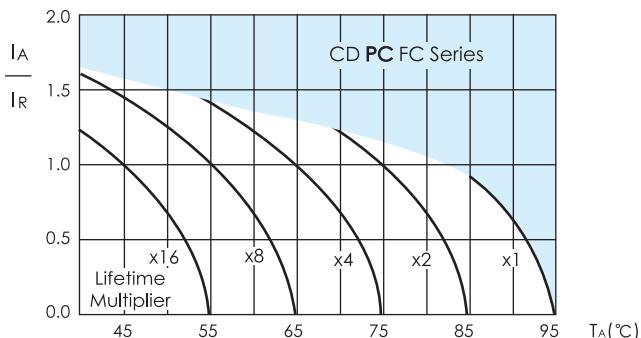
Dimensions mm



Frequency Coefficient

Frequency	50/60Hz	120Hz	400Hz	1kHz	≥10kHz
Coefficient	0.80	1.00	1.32	1.46	1.61

Lifetime Diagram



IA = actual ripple current at 120Hz, IR = rated ripple current at 120Hz, 85°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load

Temperature Coefficient

Temperature(°C)	+40	+60	+70	+85
Coefficient	1.73	1.50	1.30	1.0

Ratings for CD PC FC Series

Snap-In (PCB Type)

U_R (Surge Voltage) Code	Rated Capacitance	Dissipa- tion Factor	Max ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size $\Phi D \times L$	P/N
(V)	(μ F)	-	(Ω)	(Arms)	(mm)	-
250 (300) 2E	100	0.05	0.66	1.90	35×40	ECS2EFC101K350040
	110	0.05	0.60	2.00	35×40	ECS2EFC111K350040
	165	0.05	0.40	2.45	35×45	ECS2EFC16AK350045
	180	0.05	0.37	2.58	35×50	ECS2EFC181K350050
	195	0.05	0.34	2.68	35×50	ECS2EFC19AK350050
	210	0.05	0.32	2.78	35×50	ECS2EFC211K350050
	220	0.05	0.30	2.80	35×50	ECS2EFC221K350050
400 (450) 2G	45	0.05	1.47	1.50	35×50	ECS2GFC450K350050
	55	0.05	1.21	1.70	35×40	ECS2GFC550K350040
	75	0.05	0.88	1.98	35×50	ECS2GFC750K350040
	82	0.05	0.81	2.00	35×50	ECS2GFC820K350050

Lug (U Type)

U_R (Surge Voltage) Code	Rated Capacitance	Dissipa- tion Factor	Max ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size $\Phi D \times L$	P/N
(V)	(μ F)	-	(Ω)	(Arms)	(mm)	-
250 (300) 2E	200	0.05	0.33	3.80	40×100	ECL2EFC201K400100
	220	0.05	0.30	4.00	40×100	ECL2EFC221K400100
	330	0.05	0.20	4.85	40×100	ECL2EFC331K400100
	360	0.05	0.18	5.10	40×100	ECL2EFC361K400100
	390	0.05	0.17	5.30	40×100	ECL2EFC391K400100
	420	0.05	0.16	5.50	40×100	ECL2EFC421K400100
	440	0.05	0.15	5.60	40×100	ECL2EFC441K400100
400 (450) 2G	90	0.05	0.74	3.00	35×80	ECL2GFC900K350080
	100	0.05	0.66	3.20	35×90	ECL2GFC101K350090
	110	0.05	0.60	3.30	35×100	ECL2GFC111K350100
	150	0.05	0.44	3.90	35×100	ECL2GFC151K350100
	165	0.05	0.40	4.10	40×100	ECL2GFC16AK400100
	220	0.05	0.30	4.70	40×100	ECL2GFC221K400100

Customer products are available on request.

Typical Curves

