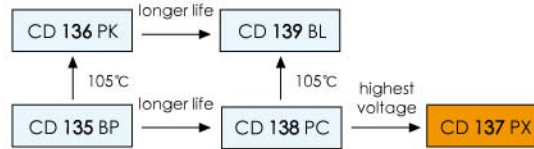




CD 137 PX Series

5000h at 85°C

- High Reliability at High Voltage
- Long Life at Compact Size

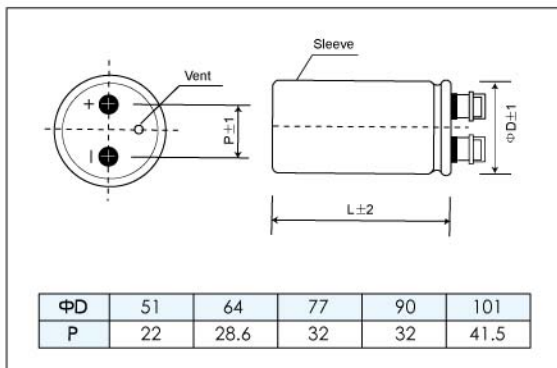


Item	Characteristics				
Operating Temperature Range (°C)	-40 ~ +85				
Voltage Range (V)	400 ~ 550				
Capacitance Range (µF)	1000 ~ 22000				
Capacitance Tolerance (20°C, 120Hz)	± 20%				
Leakage Current (µA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 5mA, whichever is smaller. C: Nominal Capacitance (µF) V: Rated Voltage (V)				
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	400	450	500	550
	Tan δ (max)	0.15		0.20	

Lifetime	Useful Life		Load Life	Endurance Test	Shelf Life
		10000h	>100000h	5000h	5000h
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 than 130% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature Failure Rate Level	U _R I _R 85°C ≤ 1% Failure Rate	U _R 1.4 x I _R 40°C ≤ 1% Failure Rate	U _R I _R 85°C guaranteed	U _R I _R = 0 85°C	U _s = 0 I _s = 0 85°C After test: U _s to be applied for 30min >24h before measurement

Dimensions

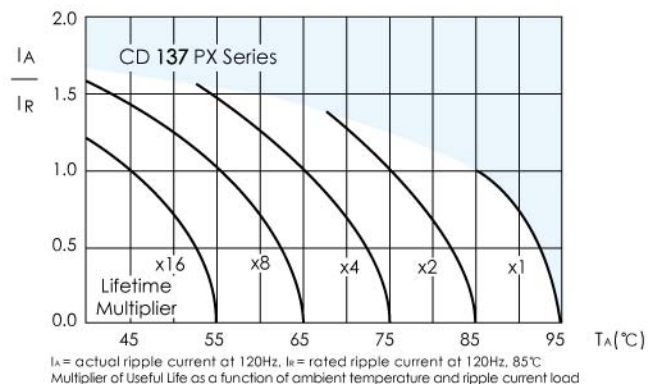
mm



Frequency Coefficient

Frequency	50Hz	120Hz	300Hz	1kHz	≥ 10kHz
Factor	0.70	1.00	1.10	1.30	1.40

Lifetime Diagram



LARGE SIZE



Ratings for CD 137 PX Series

U _R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size Φ D x L	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	
400 (450) 2G	2200	98	28	8.8	51×115	
	2700	80	24	10.2	51×130	
	3300	65	21	11.0	64×96	
	3900	55	19	12.8	64×115	
	4700	46	15	14.8	64×130	
	5600	38	14	16.2	77×115	
	6800	32	13	18.7	77×130	
	8200	26	12	22.0	77×155	
	10000	22	10	26.7	77×195	
		22	10	24.2	90×131	
	12000	18	8	28.5	90×157	
	15000	14	6	34.8	90×196	
	18000	12	5	41.2	90×236	
	22000	10	5	47.0	101×237	
450 (500) 2W	1800	119	45	7.6	51×115	
	2200	98	35	8.8	51×130	
	2700	80	30	9.5	64×96	
	3300	65	24	11.2	64×115	
	3900	55	20	12.8	64×130	
	4700	46	16	14.1	77×115	
	5600	38	13	16.2	77×130	
	6800	32	11	19.1	77×155	
	8200	26	10	23.0	77×195	
		26	10	21.0	90×131	
	10000	22	9	25.7	90×171	
	12000	18	8	29.7	90×196	
		18	8	29.3	101×175	
	15000	14	7	35.9	90×236	
		14	7	34.2	101×195	
	18000	12	6	40.5	101×237	
	500 (550) 2H	1200	215	94	6.2	51×115
			215	94	6.3	64×96
1500		172	72	7.3	51×130	
		172	72	7.1	64×96	
1800		143	51	8.3	64×115	
2200		117	40	9.6	64×130	
2700		96	35	10.7	77×115	
3300		78	35	12.4	77×130	
3900		66	25	14.4	77×155	
4700		55	24	16.5	77×171	
		55	24	15.8	90×131	
5600		46	22	19.0	77×195	
		46	22	18.6	90×157	
6800		38	19	21.2	90×171	
8200		31	14	24.5	90×196	
		31	14	24.2	101×175	
10000		26	12	29.3	90×236	
		26	12	27.9	101×195	
12000	22	11	33.1	101×237		
550 (600) 2Y	1000	258	110	5.9	51×130	
	1200	215	95	6.8	64×115	
	1500	172	74	8.0	64×130	
	1800	143	72	8.7	77×115	
	2200	117	50	10.1	77×130	
	2700	96	40	12.0	77×155	
	3300	78	36	13.3	77×155	
	3900	66	30	15.5	90×157	
	4700	55	24	17.6	90×171	
	5600	46	20	20.3	90×196	
	6800	38	16	24.1	90×236	
	8200	31	14	27.3	101×237	

Customer products are available on request.

LARGE SIZE