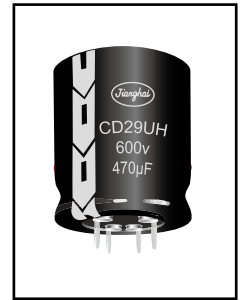
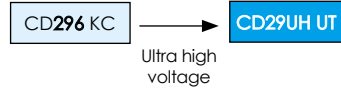


3000h at 105°C

- Ultra High Voltage
- Long Life at High Temperature
- High Ripple Current
- Suit for high frequency regenerative voltage for AC servomotor, general inverter.

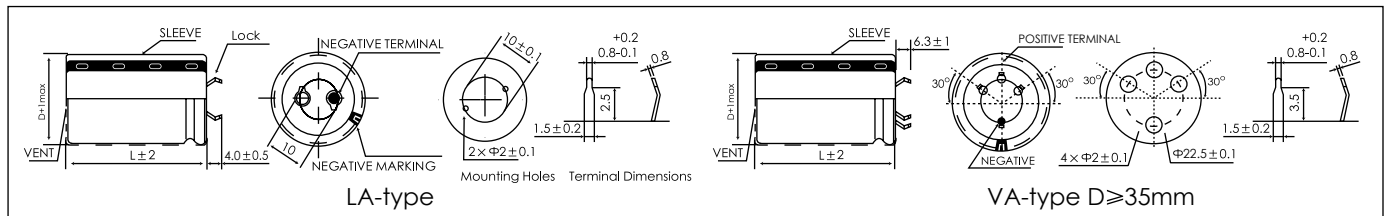


Items	Characteristics	
Operating Temperature Range (°C)	-25 ~ +105	
Voltage range (V)	575 ~ 600	
Capacitance Range (μF)	56 ~ 390	
Capacitance Tolerance (20°C, 120Hz)	± 20%	
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C: Nominal Capacitance (μF) V: Rated Voltage (V)	
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	575 600
	Tan δ (max)	0.20
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	575 600
	Z _{-25°C} / Z _{+20°C}	8

	Useful Life		Load Life	Endurance Test	Shelf Life
Life Time	6000h	> 200000h	3000h	3000h	500h
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 130% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U _R I _R 105°C	U _R 1.4 x I _R 40°C	U _R I _R 105°C	U _R I _R = 0 105°C	U _R = 0 I _R = 0 105°C After test: U _R to be applied for 30 min > 24h before measurement

Dimensions

mm



Frequency Coefficient

Frequency	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥ 50kHz
Factor	0.75	1.00	1.16	1.30	1.41	1.45

Temperature Coefficient

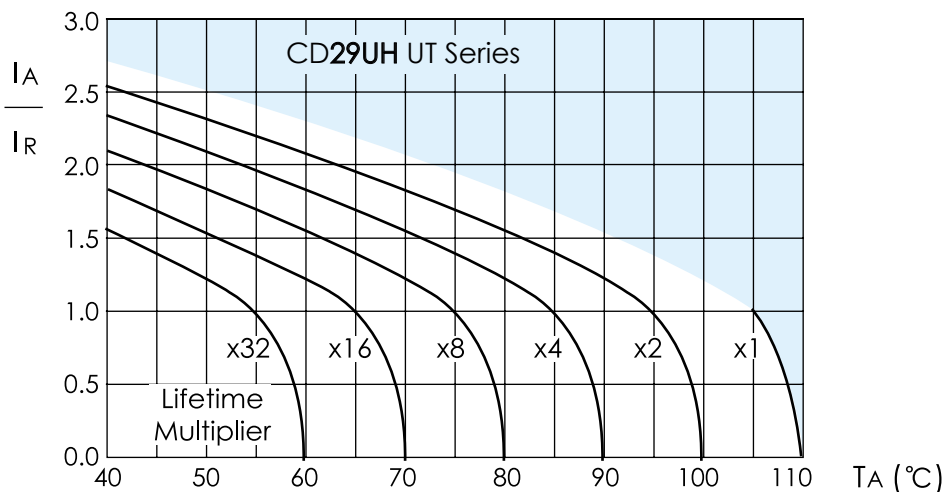
Temperature(°C)	+40	+55	+70	+85	+105
Factor	2.7	2.5	2.1	1.7	1.0

Ratings for CD29UH UT Series

U_R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
575 (625) 2Z	68	3903	1659	0.52	30X25	ECS2ZUT680M □□ 300025
	82	3236	1376	0.58	30X30	ECS2ZUT820M □□ 300030
	100	2654	1128	0.63	30X35	ECS2ZUT101M □□ 300035
	120	2212	940	0.7	30X40	ECS2ZUT121M □□ 300040
	150	1769	752	0.81	30X45	ECS2ZUT151M □□ 300045
	180	1474	627	0.89	30X50	ECS2ZUT181M □□ 300050
	220	1206	513	1.01	30X60	ECS2ZUT221M □□ 300060
	270	983	418	1.12	30X70	ECS2ZUT271M □□ 300070
		983	418	1.12	35X55	ECS2ZUT271M □□ 350055
	330	804	342	1.21	30X85	ECS2ZUT331M □□ 300085
		804	342	1.21	35X60	ECS2ZUT331M □□ 350060
		804	342	1.21	40X50	ECS2ZUT331M □□ 400050
	390	680	289	1.3	40X60	ECS2ZUT391M □□ 400060
		680	289	1.3	35X65	ECS2ZUT391M □□ 350065
600 (650) 2S	56	4739	2014	0.5	30X25	ECS2SUT560M □□ 300025
	68	3903	1659	0.56	30X30	ECS2SUT680M □□ 300030
	82	3236	1376	0.61	30X35	ECS2SUT820M □□ 300035
		3236	1376	0.61	35X25	ECS2SUT820M □□ 350025
	100	2654	1128	0.67	30X40	ECS2SUT101M □□ 300040
		2654	1128	0.67	35X30	ECS2SUT101M □□ 350030
	120	2212	940	0.74	30X45	ECS2SUT121M □□ 300045
		2212	940	0.74	35X35	ECS2SUT121M □□ 350035
	150	1769	752	0.83	30X50	ECS2SUT151M □□ 300050
		1769	752	0.83	35X40	ECS2SUT151M □□ 350040
	180	1474	627	0.91	30X55	ECS2SUT181M □□ 300055
		1474	627	0.91	35X45	ECS2SUT181M □□ 350045
	220	1206	513	1.05	30X60	ECS2SUT221M □□ 300060
		1206	513	1.05	35X50	ECS2SUT221M □□ 350050
	270	983	418	1.17	35X55	ECS2SUT271M □□ 350055
	330	804	342	1.27	35X65	ECS2SUT331M □□ 350065

Customer products are available on request.

Life Time Diagram



I_A = actual ripple current at 120Hz, I_R = rated ripple current at 120Hz, 105°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load