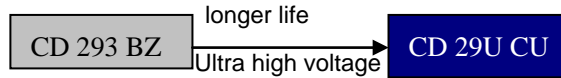


# CD 29U CU SERIES



3000h at 85°C

- Ultra High Voltage
- High Ripple Current
- Suit for use in industrial power supplies  
For inverter, etc.



Items	Characteristics								
Operating Temperature Range(°C)	-25~ +85								
Voltage Range (V)	575、600、630								
Capacitance Range(µF)	150~1500								
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)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>575</td> <td>600</td> <td>630</td> </tr> <tr> <td>Tan δ(max)</td> <td colspan="3">0.20</td> </tr> </table>	Rated Voltage(V)	575	600	630	Tan δ(max)	0.20		
	Rated Voltage(V)	575	600	630					
Tan δ(max)	0.20								
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>575</td> <td>600</td> <td>630</td> </tr> <tr> <td>Z<sub>-25°C</sub>/Z<sub>+20°C</sub></td> <td colspan="3">12</td> </tr> </table>	Rated Voltage(V)	575	600	630	Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	12		
Rated Voltage(V)	575	600	630						
Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	12								

	Useful Life		Load Life	Endurance Test	Shelf Life
Life Time	6000h	>200000h	3000h	3000h	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 ±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:					<div style="border: 1px solid black; padding: 5px;">                     After test:                      U<sub>R</sub> = 0                      I<sub>R</sub> = 0                      85°C                      U<sub>R</sub> to be applied for 30min&gt;24h before measurement                 </div>
Applied Voltage	U <sub>R</sub>	U <sub>R</sub>	U <sub>R</sub>	U <sub>R</sub>	
Applied Current	I <sub>R</sub>	1.4 × I <sub>R</sub>	I <sub>R</sub>	I <sub>R</sub> = 0	
Applied Temperature	85°C	40°C	85°C	85°C	

## Frequency coefficient

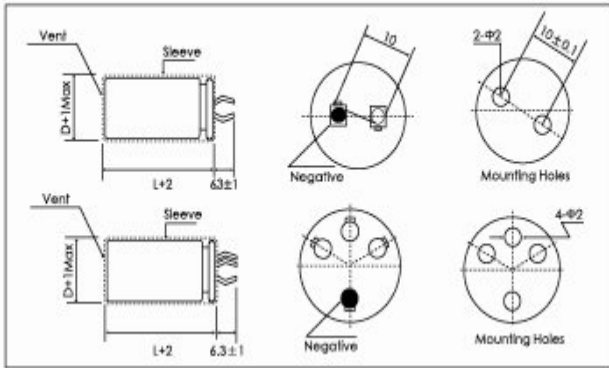
Frequency	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥ 50kHz
Factor	0.80	1.00	1.16	1.30	1.41	1.45

## Temperature Coefficient

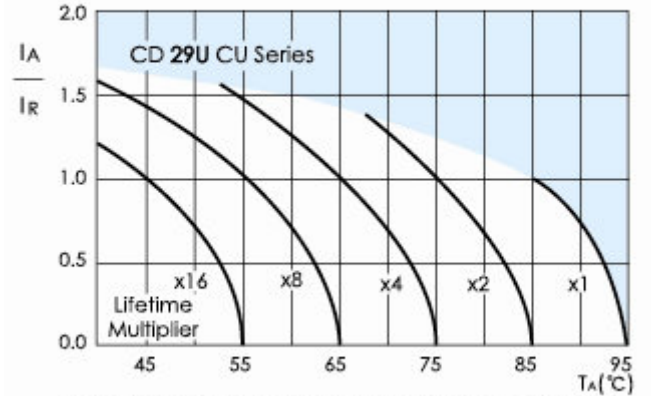
Temperature(°C)	+40	+55	+70	+85
Factor	1.7	1.5	1.3	1.0

## Dimensions

mm



## Lifetime Diagram



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

## Ratings for CD29U CU 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 $\Phi$ DxL	P/N
(v)	( $\mu$ F)	(m $\Omega$ )	(m $\Omega$ )	(Arms)	(mm)	-
575 (625) 2Z	180	1106	627	1.15	30x45	ECS2ZCU181M□□300045
	220	905	513	1.30	30x50	ECS2ZCU221M□□300050
	270	737	418	1.55	30x60	ECS2ZCU271M□□300060
		737	418	1.55	35x45	ECS2ZCU271M□□350045
	330	603	342	1.75	30x70	ECS2ZCU331M□□300070
		603	342	1.75	35x50	ECS2ZCU331M□□350050
		603	342	1.75	40x45	ECS2ZCU331M□□400045
	390	510	289	1.95	30x85	ECS2ZCU391M□□300085
		510	289	1.95	35x60	ECS2ZCU391M□□350060
		510	289	1.95	40x55	ECS2ZCU391M□□400055
	470	423	240	2.15	35x70	ECS2ZCU471M□□350070
		423	240	2.15	40x60	ECS2ZCU471M□□400060
		423	240	2.15	45x50	ECS2ZCU471M□□450050
	560	355	201	2.40	35x80	ECS2ZCU561M□□350080
		355	201	2.40	40x70	ECS2ZCU561M□□400070
		355	201	2.40	45x55	ECS2ZCU561M□□450055
	680	293	166	2.72	35x95	ECS2ZCU681M□□350095
		293	166	2.72	40x80	ECS2ZCU681M□□400080
		293	166	2.72	45x65	ECS2ZCU681M□□450065
	820	243	138	3.05	40x100	ECS2ZCU821M□□400100
243		138	3.05	45x75	ECS2ZCU821M□□450075	
1000	199	113	3.20	45x90	ECS2ZCU102M□□450090	
	199	113	3.20	50x75	ECS2ZCU102M□□500075	
1200	166	94	3.35	45x105	ECS2ZCU122M□□450105	
	166	94	3.35	50x85	ECS2ZCU122M□□500085	
1500	133	75	3.50	50x100	ECS2ZCU152M□□500100	
600 (650) 2S	150	1327	752	0.95	30x45	ECS2SCU151M□□300045
	180	1106	627	1.10	30x50	ECS2SCU181M□□300050
	220	905	495	1.22	30x60	ECS2SCU221M□□300060
	270	737	403	1.25	30x70	ECS2SCU271M□□300070
	330	603	330	1.35	30x80	ECS2SCU331M□□300080
		603	330	1.35	40x50	ECS2SCU331M□□400050
	390	510	279	1.48	40x60	ECS2SCU391M□□400060
	470	423	232	1.65	40x70	ECS2SCU471M□□400070
		423	232	1.65	45x55	ECS2SCU471M□□450055

# CD 29U CU SERIES



	560	355	194	1.75	40x80	ECS2SCU561M□□400080
		355	194	1.75	45x60	ECS2SCU561M□□450060
	680	293	160	1.83	40x90	ECS2SCU681M□□400090
		293	160	1.83	45x70	ECS2SCU681M□□450070
	820	243	133	2.00	45x85	ECS2SCU821M□□450085
		243	133	2.00	50x70	ECS2SCU821M□□500070
	1000	199	109	2.25	45x100	ECS2SCU102M□□450100
		199	109	2.25	50x80	ECS2SCU102M□□500080
1200	166	91	2.45	50x95	ECS2SCU122M□□500095	
630 (680) J2	150	1327	708	0.93	30x45	ECSJ2CU151M□□300045
	180	1106	590	1.00	30x50	ECSJ2CU181M□□300050
	220	905	483	1.10	30x60	ECSJ2CU221M□□300060
	270	737	393	1.20	30x70	ECSJ2CU271M□□300070
	330	603	322	1.32	30x85	ECSJ2CU331M□□300085
		603	322	1.32	40x50	ECSJ2CU331M□□400050
	390	510	272	1.45	40x60	ECSJ2CU391M□□400060
	470	423	226	1.60	40x70	ECSJ2CU471M□□400070
		423	226	1.60	45x55	ECSJ2CU471M□□450055
	560	355	190	1.70	40x80	ECSJ2CU561M□□400080
		355	190	1.70	45x65	ECSJ2CU561M□□450065
	680	293	156	1.80	40x95	ECSJ2CU681M□□400095
		293	156	1.80	45x75	ECSJ2CU681M□□450075
	820	243	129	1.95	45x90	ECSJ2CU821M□□450090
		243	129	1.95	50x75	ECSJ2CU821M□□500075
	1000	199	106	2.18	45x105	ECSJ2CU102M□□450105
		199	106	2.18	50x85	ECSJ2CU102M□□500085
	1200	166	88	2.35	50x105	ECSJ2CU122M□□500105

Customer products are available on request.

