



**CAPACITOR  
COMPETENCE**  
*since 1958*

ALUMINUM ELECTROLYTIC CAPACITORS

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ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

# CD 29U CU SERIES

**JIANGHAI EUROPE**  
Electronic Components GmbH

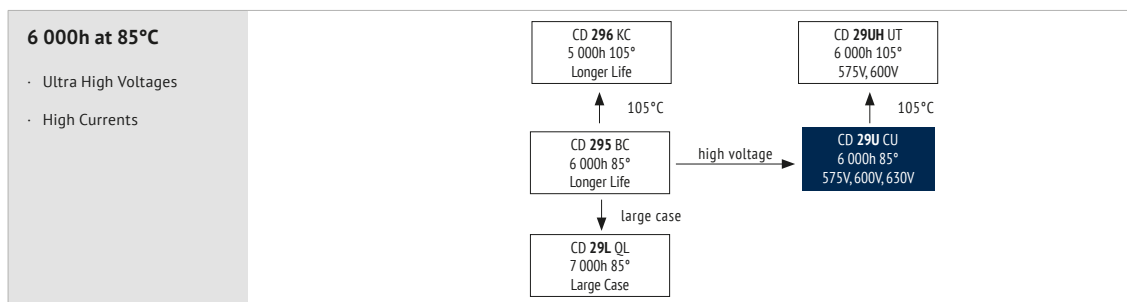


ENGINEERED SOLUTIONS

v2019.1

# CD 29U CU SERIES

## ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE



### ITEM CHARACTERISTICS

Operating Temperature Range (°C)	-25 ~ +85			
Voltage Range (V)	575, 600, 630			
Capacitance Range (µF)	150 - 1 500			
Capacitance Tolerance (20°C, 120Hz)	± 20%			
Leakage Current	After 5 minutes at 20°C application of rated voltage, leakage current is not more than specified in table.			
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	575	600	630
	Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	12		
Fast Charge-Discharge	⚠ Please contact Jianghai for an appropriate choice of the capacitor or possible technical adaptations, esp. for applications like: Welding, Photoflash, Servo motors, X-Ray			

⚠ The usage at lower temperatures than indicated may be possible. Please contact the Jianghai Europe sales office for approval.

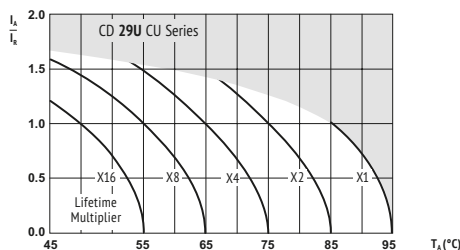
ITEM	USEFUL LIFE		LOAD LIFE	ENDURANCE TEST	SHELF LIFE	
Lifetime	6 000h	> 100 000h	3 000h	3 000h	1 000h	
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value	
Capacitance Change	Within ± 30% of initial value		Within ± 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 <sub>r</sub> I <sub>r</sub> 85°C	U <sub>r</sub> 1,2 x I <sub>r</sub> 40°C	U <sub>r</sub> I <sub>r</sub> 85°C	U <sub>r</sub> I <sub>r</sub> = 0 85°C IEC 60384	U <sub>r</sub> = 0 I <sub>r</sub> = 0 85°C	After test: U <sub>r</sub> to be applied for 30 min > 24h before measurement

### MULTIPLIER FOR RIPPLE CURRENT (FREQUENCY COEFFICIENT)

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	> 50 kHz
<b>Coefficient</b>	0,80	1,00	1,16	1,30	1,41	1,45

Multipliers for typical operating conditions.

### MULTIPLIER FOR LIFETIME (LIFETIME DIAGRAM)



I<sub>a</sub> = actual ripple current at 120Hz,  
I<sub>r</sub> = rated ripple current at 120Hz, 85°C  
Multiplier of Useful Life as a function of ambient temperature & ripple current load

### ENVIRONMENTAL

The products are RoHS, WEEE and REACH compliant. The detailed version please see separate "Environmental Certificates" document or [www.jianghai-europe.com](http://www.jianghai-europe.com)

### SAFETY FACTOR

This diagram includes a safety margin. In many cases the allowed current capability/lifetime may be increased. For details and approvals please contact the Jianghai Europe sales office.

## JIANGHAI EUROPE

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Customer specific adaptations needed? Please contact Jianghai Europe GmbH:  
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U <sub>abc</sub> (Surge Voltage) Code	C <sub>r</sub> Rated Capacitance	ESR <sub>max</sub> Equivalent Series Resistance 20°C 120Hz	ESR <sub>typ</sub> Equivalent Series Resistance 20°C 120Hz	tanδ Dissipation Factor 20°C 120Hz	I <sub>leak</sub> Leakage Current	I <sub>rms</sub> Rated Ripple Current 85°C 120Hz	Size øD x L	ORDER CODE ◇◇ = pin style & length △△ = pin number Details: Page 4	
(V)	(μF)	(mΩ)	(mΩ)		(mA)	(Arms)	(mm)		
<b>575</b> (625) 2Z	180	1 106	627	0,2	1,0	1,15	30 x 45	ECS2ZCU181M◇◇△△3045	
	220	905	513	0,2	1,3	1,30	30 x 50	ECS2ZCU221M◇◇△△3050	
	270	737	418	418	0,2	1,5	1,55	30 x 60	ECS2ZCU271M◇◇△△3060
		737	418	418	0,2	1,5	1,55	35 x 45	ECS2ZCU271M◇◇△△3545
	330	603	342	342	0,2	1,5	1,75	30 x 70	ECS2ZCU331M◇◇△△3070
		603	342	342	0,2	1,5	1,75	35 x 50	ECS2ZCU331M◇◇△△3550
		603	342	342	0,2	1,5	1,75	40 x 45	ECS2ZCU331M◇◇△△4045
	390	510	289	289	0,2	1,5	1,95	30 x 85	ECS2ZCU391M◇◇△△3085
		510	289	289	0,2	1,5	1,95	35 x 60	ECS2ZCU391M◇◇△△3560
		510	289	289	0,2	1,5	1,95	40 x 55	ECS2ZCU391M◇◇△△4055
	470	423	240	240	0,2	1,5	2,15	35 x 70	ECS2ZCU471M◇◇△△3570
		423	240	240	0,2	1,5	2,15	40 x 60	ECS2ZCU471M◇◇△△4060
		423	240	240	0,2	1,5	2,15	45 x 50	ECS2ZCU471M◇◇△△4550
	560	355	201	201	0,2	1,5	2,40	35 x 80	ECS2ZCU561M◇◇△△3580
		355	201	201	0,2	1,5	2,40	40 x 70	ECS2ZCU561M◇◇△△4070
		355	201	201	0,2	1,5	2,40	45 x 55	ECS2ZCU561M◇◇△△4555
	680	293	166	166	0,2	1,5	2,72	35 x 95	ECS2ZCU681M◇◇△△3595
		293	166	166	0,2	1,5	2,72	40 x 80	ECS2ZCU681M◇◇△△4080
		293	166	166	0,2	1,5	2,72	45 x 65	ECS2ZCU681M◇◇△△4565
	820	243	138	138	0,2	1,5	3,05	40 x 100	ECS2ZCU821M◇◇△△40100
243		138	138	0,2	1,5	3,05	45 x 75	ECS2ZCU821M◇◇△△4575	
1000	199	113	113	0,2	1,5	3,20	45 x 90	ECS2ZCU102M◇◇△△4590	
	199	113	113	0,2	1,5	3,20	50 x 75	ECS2ZCU102M◇◇△△5075	
1200	166	94	94	0,2	1,5	3,35	45 x 105	ECS2ZCU122M◇◇△△45105	
	166	94	94	0,2	1,5	3,35	50 x 85	ECS2ZCU122M◇◇△△5085	
1500	133	75	75	0,2	1,5	3,50	50 x 100	ECS2ZCU152M◇◇△△50100	
<b>600</b> (650) 2S	150	1 327	752	0,2	0,9	0,95	30 x 45	ECS2SCU151M◇◇△△3045	
	180	1 106	627	0,2	1,1	1,10	30 x 50	ECS2SCU181M◇◇△△3050	
	220	905	495	0,2	1,3	1,22	30 x 60	ECS2SCU221M◇◇△△3060	
	270	737	403	403	0,2	1,5	1,25	30 x 70	ECS2SCU271M◇◇△△3070
		603	330	330	0,2	1,5	1,35	30 x 80	ECS2SCU331M◇◇△△3080
	330	603	330	330	0,2	1,5	1,35	40 x 50	ECS2SCU331M◇◇△△4050
		510	279	279	0,2	1,5	1,48	40 x 60	ECS2SCU391M◇◇△△4060
	470	423	232	232	0,2	1,5	1,65	40 x 70	ECS2SCU471M◇◇△△4070
		423	232	232	0,2	1,5	1,65	45 x 55	ECS2SCU471M◇◇△△4555
	560	355	194	194	0,2	1,5	1,75	40 x 80	ECS2SCU561M◇◇△△4080
		355	194	194	0,2	1,5	1,75	45 x 60	ECS2SCU561M◇◇△△4560
	680	293	160	160	0,2	1,5	1,83	40 x 90	ECS2SCU681M◇◇△△4090
		293	160	160	0,2	1,5	1,83	45 x 70	ECS2SCU681M◇◇△△4570
	820	243	133	133	0,2	1,5	2,00	45 x 85	ECS2SCU821M◇◇△△4585
		243	133	133	0,2	1,5	2,00	50 x 70	ECS2SCU821M◇◇△△5070
	1000	199	109	109	0,2	1,5	2,25	45 x 100	ECS2SCU102M◇◇△△45100
199		109	109	0,2	1,5	2,25	50 x 80	ECS2SCU102M◇◇△△5080	
1200	166	91	91	0,2	1,5	2,45	50 x 95	ECS2SCU122M◇◇△△5095	
<b>630</b> (680) J2	150	1 327	708	0,2	0,9	0,93	30 x 45	ECSJ2CU151M◇◇△△3045	
	180	1 106	590	0,2	1,1	1,00	30 x 50	ECSJ2CU181M◇◇△△3050	
	220	905	483	0,2	1,4	1,10	30 x 60	ECSJ2CU221M◇◇△△3060	
	270	737	393	393	0,2	1,5	1,20	30 x 70	ECSJ2CU271M◇◇△△3070
		603	322	322	0,2	1,5	1,32	30 x 85	ECSJ2CU331M◇◇△△3085
	330	603	322	322	0,2	1,5	1,32	40 x 50	ECSJ2CU331M◇◇△△4050
		510	272	272	0,2	1,5	1,45	40 x 60	ECSJ2CU391M◇◇△△4060
	470	423	226	226	0,2	1,5	1,60	40 x 70	ECSJ2CU471M◇◇△△4070
		423	226	226	0,2	1,5	1,60	45 x 55	ECSJ2CU471M◇◇△△4555
	560	355	190	190	0,2	1,5	1,70	40 x 80	ECSJ2CU561M◇◇△△4080
		355	190	190	0,2	1,5	1,70	45 x 65	ECSJ2CU561M◇◇△△4565
	680	293	156	156	0,2	1,5	1,80	40 x 95	ECSJ2CU681M◇◇△△4095
		293	156	156	0,2	1,5	1,80	45 x 75	ECSJ2CU681M◇◇△△4575
	820	243	129	129	0,2	1,5	1,95	45 x 90	ECSJ2CU821M◇◇△△4590
		243	129	129	0,2	1,5	1,95	50 x 75	ECSJ2CU821M◇◇△△5075
	1000	199	106	106	0,2	1,5	2,18	45 x 105	ECSJ2CU102M◇◇△△45105
199		106	106	0,2	1,5	2,18	50 x 85	ECSJ2CU102M◇◇△△5085	
1200	166	88	88	0,2	1,5	2,35	50 x 105	ECSJ2CU122M◇◇△△50105	



### ORDER CODE SNAP-IN TYPE

EC	S	2G	QC	221	M	T6	P2	2535	-	JExxxx
Technology	Terminal Type	Rated Voltage Code	Series Code	Capacitance Code	Capacitance Tolerance	Terminal Style	Terminal / Pitch	Dimension (mm)	Material Code	for Specials only
EC Electrolytic Capacitor	Snap-In S	6,3V OJ	CD 293 BZ	0,1 OR1	±20% M	4,0mm Pin Length T/L4	2 Pin P2	22x40 2240	Standard -	
		10V 1A	CD 294 BW	0,47 R47	±10% K	6,3mm Pin Length T/L6	3 Pin P3	30x45 3045	PVC V	
		16V 1C	CD 295 BC	1,0 O10	+30/-10% Q	Soldering Pin S4	4 Pin P4	35x80 3580	PET E	
		20V 1D	CD 295S BS	2,2 2R2	+20/-0% R		5 Pin P5	45x100 45100		
		25V 1E	CD 296 KC	100 101	±15% L	on request: alternative pin types	6 Pin P6	50x105 50105		
		35V 1V	CD 296L FL	1 000 102	+20/-10% V					
		40V 1G	CD 297 BB	10 000 103						
		50V 1H	CD 299 PG							
		63V 1J	CD 29C QC							
		80V 1K	CD 29D HR							
		100V 2A	CD 29G BA							
		125V 2B	CD 29H QH							
		160V 2C	CD 29HD QF							
		180V 2K	CD 29L QL							
		200V 2D	CD 29U CU							
		250V 2E	CD 29UH UT							
		385V 2J	CD 840 ZQ							
		400V 2G	CD 891 ZI							
		415V 2P	CD 892 ZL							
		420V 2X	CD 895 ZK							
		450V 2W								
		500V 2H								
		550V 2Y								
		575V 2Z								
		600V 2S								
		630V J2								

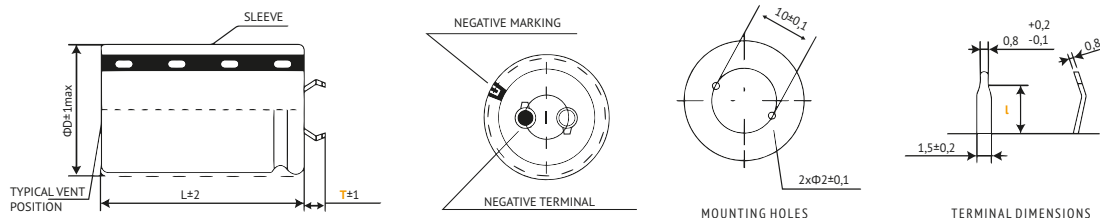
■ = preferred



# CD 29U CU SERIES

## ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

### 2 PIN TYPE: T6P2 / T4P2 STANDARD

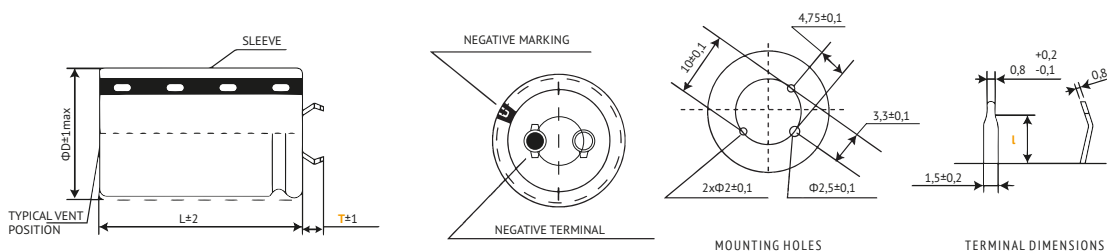


Standard Version: Self-Lock Terminal. Other terminal types and styles on request.  
For diameter  $\Phi D \geq 45 \text{ mm}$  the safety vent is typically placed at the side of the housing.

Terminal	T6 (preferred)	T4
Pin Length <b>T</b>	6,3 mm	4,0 mm
Pin Detail <b>L</b>	3,5 mm	2,5 mm

in mm

### 3 PIN TYPE: T4P3

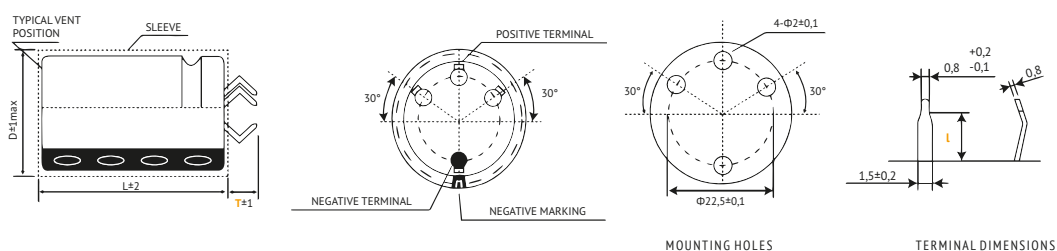


For diameter  $\Phi D \geq 45 \text{ mm}$  the safety vent is typically placed at the side of the housing.

Terminal	T6	T4
Pin Length <b>T</b>	-	4,0 mm
Pin Detail <b>L</b>	-	2,5 mm

in mm

### 4 PIN TYPE: T6P4/T4P4 STANDARD



Standard Version: Non-Lock-Terminal. Other terminal types and styles on request.  
For  $\Phi D \geq 30 \text{ mm}$  only.  
For diameter  $\Phi D \geq 45 \text{ mm}$  the safety vent is typically placed at the side of the housing.

Terminal	T6 (preferred)	T4
Pin Length <b>T</b>	6,3 mm	4,0 mm
Pin Detail <b>L</b>	3,5 mm	2,5 mm

in mm

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