



**CAPACITOR
COMPETENCE**
since 1958

ALUMINUM ELECTROLYTIC CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

CD 891 ZJ SERIES

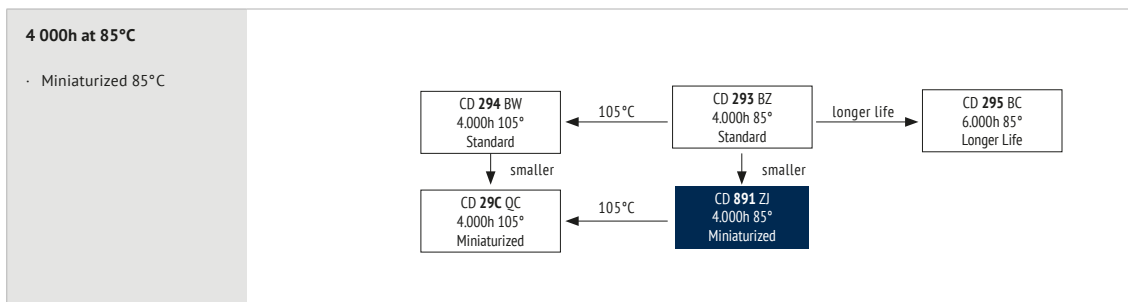
JIANGHAI EUROPE
Electronic Components GmbH



ENGINEERED SOLUTIONS

v2019.1

CD 891 ZJ SERIES ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE



ITEM CHARACTERISTICS

Operating Temperature Range (°C)	-40 ~ +85	-25 ~ +85				
Voltage Range (V)	35 ~ 400	420 ~ 500				
Capacitance Range (µF)	68 ~ 18 000					
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)	35	50-100	160-200	250-400	420-500
	$Z_{-25°C} / Z_{+20°C}$	4	3		4	
	$Z_{-40°C} / Z_{+20°C}$	15	10	6	8	-
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.

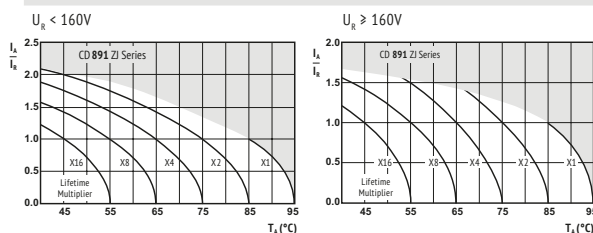
ITEM	USEFUL LIFE	LOAD LIFE	ENDURANCE TEST	SHELF LIFE	
Lifetime	4 000h	> 65 000h	2 000h	3 000h	1 000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 30% of initial value		Within ± 15% of initial value	Within ± 20% of initial value	Within ± 15% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 150% of specified value	Not more than 200% of specified value	Not more than 150% of specified value
Condition:	U_R		U_R	U_R	$U_R = 0$
Applied Voltage	I_R		I_R	$I_R = 0$	$I_R = 0$
Applied Current	85°C		85°C	85°C	85°C
Applied Temperature	1.2 x I_R 40°C		IEC 60384		After test: U_R to be applied for 30 min > 24h before measurement

MULTIPLIER FOR RIPPLE CURRENT (FREQUENCY COEFFICIENT)

Rated Voltage (V) \ Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz
≤ 50	0,88	1,00	1,07	1,15	1,15	1,15
63 - 100	0,80	1,00	1,17	1,32	1,45	1,50
≥ 160	0,80	1,00	1,16	1,30	1,41	1,43

Multippliers for typical operating conditions.

MULTIPLIER FOR LIFETIME (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 & ripple current load

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 & 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

⚠ 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.

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Customer specific adaptations needed? Please contact Jianghai Europe GmbH:
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CD 891 ZJ SERIES ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

U _{RDC} (Surge Voltage) Code	C _R Rated Capacitance	ESR _{max}		tanδ	I _{leak} Leakage Current	I _{RMC} Rated Ripple Current	Size øD x L	ORDER CODE
		Equivalent Series Resistance 20°C 120Hz	Equivalent Series Resistance 20°C 120Hz					
(V)	(μF)	(mΩ)	(mΩ)		(mA)	(Ams)	(mm)	Details: Page 5
450 (500) 2W	100	1990	1592	0,15	0,5	0,7	22 x 30	ECS2WZJ101M00ΔΔ2230
	120	1658	1350	0,15	0,5	0,8	22 x 35	ECS2WZJ121M00ΔΔ2235
	150	1327	1062	0,15	0,7	1,2	22 x 30	ECS2WZJ151M00ΔΔ2230
		1327	1062	0,15	0,7	0,9	25 x 35	ECS2WZJ151M00ΔΔ2535
	220	905	724	0,15	1,0	1,1	22 x 40	ECS2WZJ221M00ΔΔ2240
		905	724	0,15	1,0	1,1	25 x 45	ECS2WZJ221M00ΔΔ2545
		905	724	0,15	1,0	1,3	30 x 30	ECS2WZJ221M00ΔΔ3030
	270	737	590	0,15	1,2	1,5	35 x 30	ECS2WZJ271M00ΔΔ3530
	330	603	483	0,15	1,5	1,6	25 x 60	ECS2WZJ331M00ΔΔ2560
		603	483	0,15	1,5	1,7	30 x 35	ECS2WZJ331M00ΔΔ3035
		603	483	0,15	1,5	1,8	35 x 35	ECS2WZJ331M00ΔΔ3535
	390	511	409	0,15	1,5	1,8	25 x 55	ECS2WZJ391M00ΔΔ2555
		511	409	0,15	1,5	1,8	30 x 45	ECS2WZJ391M00ΔΔ3045
		511	409	0,15	1,5	1,7	35 x 35	ECS2WZJ391M00ΔΔ3535
		511	409	0,15	1,5	1,9	35 x 40	ECS2WZJ391M00ΔΔ3540
	470	424	339	0,15	1,5	2,2	30 x 50	ECS2WZJ471M00ΔΔ3050
		424	339	0,15	1,5	2,4	35 x 40	ECS2WZJ471M00ΔΔ3540
	560	356	285	0,15	1,5	3,0	30 x 55	ECS2WZJ561M00ΔΔ3055
		356	285	0,15	1,5	2,3	35 x 50	ECS2WZJ561M00ΔΔ3550
	680	293	234	0,15	1,5	2,3	35 x 50	ECS2WZJ681M00ΔΔ3550
	820	243	195	0,15	1,5	3,6	35 x 55	ECS2WZJ821M00ΔΔ3555
	1000	199	160	0,15	1,5	4,2	35 x 55	ECS2WZJ102M00ΔΔ3555
		199	160	0,15	1,5	4,5	35 x 75	ECS2WZJ102M00ΔΔ3575
		199	160	0,15	1,5	5,0	40 x 70	ECS2WZJ102M00ΔΔ4070
	1200	166	135	0,15	1,5	5,0	40 x 100	ECS2WZJ122M00ΔΔ40100
	1500	133	120	0,15	1,5	6,4	40 x 100	ECS2WZJ152M00ΔΔ40100
		133	120	0,15	1,5	6,7	45 x 75	ECS2WZJ152M00ΔΔ4575
	1800	111	100	0,15	1,5	5,9	45 x 100	ECS2WZJ182M00ΔΔ45100
	2200	91	75	0,15	1,5	7,0	45 x 100	ECS2WZJ222M00ΔΔ45100
	2700	74	50	0,15	1,5	10,0	55 x 105	ECS2WZJ272M00ΔΔ55105
500 (550) 2H	470	424	340	0,15	1,5	2,3	35 x 55	ECS2HZJ471M00ΔΔ3555
	560	356	320	0,15	1,5	2,4	35 x 60	ECS2HZJ561M00ΔΔ3560
	680	293	234	0,15	1,5	2,5	35 x 70	ECS2HZJ681M00ΔΔ3570



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	on request: alternative pin types	5 Pin P5	45x100 45100		
		25V 1E	CD 296 KC	100 101	±15% L		6 Pin P6	50x105 50105		
		35V 1V	CD 296L FL	1 000 102	+20/-10% V	■ = preferred				
		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 ZJ							
		415V 2P	CD 892 ZL							
		420V 2X	CD 895 ZK							
		450V 2W								
		500V 2H								
		550V 2Y								
		575V 2Z								
		600V 2S								
		630V 1J								

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