



**CAPACITOR
COMPETENCE**
since 1958

ALUMINUM ELECTROLYTIC CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

CD 29H QH SERIES

JIANGHAI EUROPE
Electronic Components GmbH

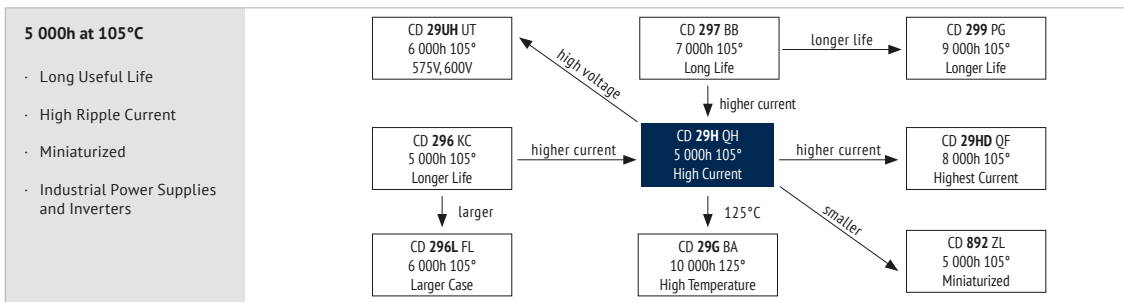


ENGINEERED SOLUTIONS

v2019.1

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ITEM CHARACTERISTICS

Operating Temperature Range (°C)	-40 - +105
Voltage Range (V)	160 - 450
Capacitance Range (µF)	47 - 2 200
Capacitance Tolerance (20°C, 120Hz)	± 20%

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

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)	160 - 450
	$Z_{-40°C} / Z_{+20°C}$	4

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

ITEM	USEFUL LIFE		LOAD LIFE	ENDURANCE TEST	SHELF LIFE	
Lifetime	5 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_R I_R 105°C	U_R $1.4 \times I_R$ 50°C	U_R I_R 105°C	U_R $I_R = 0$ 105°C IEC 60384	$U_R = 0$ $I_R = 0$ 105°C	After test: U_R to be applied for 30 min > 24h before measurement

MULTIPLIER FOR RIPPLE CURRENT (FREQUENCY COEFFICIENT)

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	≥ 50 kHz
Coefficient	0,80	1,00	1,16	1,30	1,41	1,45

Multippliers for typical operating conditions.

MULTIPLIER FOR LIFETIME (LIFETIME 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 & 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.

JIANGHAI EUROPE

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Customer specific adaptations needed? Please contact Jianghai Europe GmbH:
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U _{ADC} (Surge Voltage) Code	C _r Rated Capacitance (μF)	ESR _{max}	ESR _{typ}	tanδ	I _{leak} Leakage Current (mA)	I _{RAC} Rated Ripple Current 105°C 120Hz (Arms)	Size øD x L (mm)	ORDER CODE
		Equivalent Series Resistance 20°C 120Hz (mΩ)	Equivalent Series Resistance 20°C 120Hz (mΩ)					
450 (500) 2W	150	1062	530	0,12	0,7	0,95	22 x 50	ECS2WQH151M00ΔΔ2250
		1062	530	0,12	0,7	0,95	25 x 40	ECS2WQH151M00ΔΔ2540
		1062	530	0,12	0,7	0,95	30 x 30	ECS2WQH151M00ΔΔ3030
	180	1062	530	0,12	0,7	0,95	35 x 25	ECS2WQH151M00ΔΔ3525
		885	530	0,12	0,8	1,05	25 x 45	ECS2WQH181M00ΔΔ2545
	220	885	530	0,12	0,8	1,05	30 x 35	ECS2WQH181M00ΔΔ3035
		724	360	0,12	1,0	1,30	25 x 50	ECS2WQH221M00ΔΔ2550
		724	360	0,12	1,0	1,30	30 x 40	ECS2WQH221M00ΔΔ3040
	270	724	360	0,12	1,0	1,30	35 x 30	ECS2WQH221M00ΔΔ3530
		590	295	0,12	1,2	1,50	30 x 45	ECS2WQH271M00ΔΔ3045
	330	590	295	0,12	1,2	1,50	35 x 35	ECS2WQH271M00ΔΔ3535
		483	240	0,12	1,5	1,90	30 x 50	ECS2WQH331M00ΔΔ3050
		483	240	0,12	1,5	1,90	35 x 40	ECS2WQH331M00ΔΔ3540
		390	409	205	0,12	1,5	1,90	35 x 45
	470	339	170	0,12	1,5	2,20	35 x 50	ECS2WQH471M00ΔΔ3550

◇◇ = pin style & length
 ΔΔ = pin number
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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 1J								

■ = preferred



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