



**CAPACITOR
COMPETENCE**
since 1958

ALUMINUM ELECTROLYTIC CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

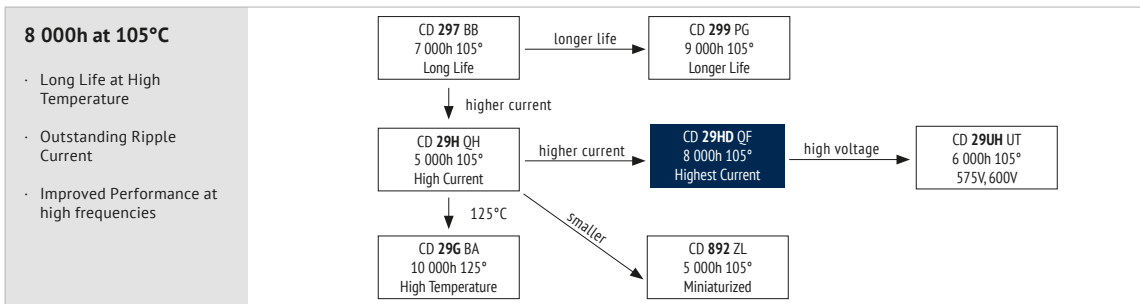
CD 29HD QF SERIES

JIANGHAI EUROPE
Electronic Components GmbH



ENGINEERED SOLUTIONS

v2019.1



ITEM CHARACTERISTICS

Operating Temperature Range (°C)	-40 ~ +105	<div style="background-color: #ffcc00; padding: 5px; border: 1px solid black;"> <p>! The usage at lower temperatures than indicated may be possible. Please contact the Jianghai Europe sales office for approval.</p> </div>	
Voltage Range (V)	200 ~ 450		
Capacitance Range (µF)	220 ~ 3 900		
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)	200 ~ 400	450
	$Z_{-25°C} / Z_{+20°C}$	4	7
	$Z_{-40°C} / Z_{+20°C}$	7	12
Fast Charge-Discharge	<div style="background-color: #ffcc00; padding: 5px; border: 1px solid black;"> <p>! Please contact Jianghai for an appropriate choice of the capacitor or possible technical adaptations, esp. for applications like: Welding, Photoflash, Servo motors, X-Ray</p> </div>		

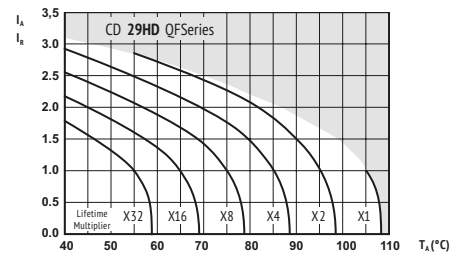
ITEM	USEFUL LIFE		LOAD LIFE	ENDURANCE TEST	SHELF LIFE	
Lifetime	8 000h	> 200 000h	3 000h	4 000h	1 000h	
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value	
Capacitance Change	Within ± 30% of initial value		Within ± 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 130% of specified value	Not more than 200% of specified value	
Condition:	U_R	U_R	U_R	U_R	$U_R = 0$	After test: U_R to be applied for 30 min > 24h before measurement
Applied Voltage	I_R	$1,35 \times I_R$	I_R	$I_R = 0$	$I_R = 0$	
Applied Current	105°C	40°C	105°C	105°C	105°C	
Applied Temperature				IEC 60384		

MULTIPLIER FOR RIPPLE CURRENT (FREQUENCY COEFFICIENT)

Rated Voltage (V)	Frequency					
	50Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz
200 ~ 350	0,80	1,00	1,35	1,50	1,59	1,60
400	0,80	1,00	1,35	1,60	1,72	1,72
450	0,80	1,00	1,32	1,50	1,62	1,63

Multipliers 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.

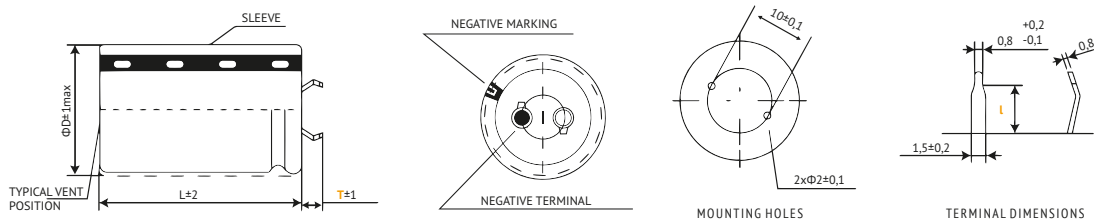


ORDER CODE SNAP-IN TYPE

EC	S	2G	QC	221	M	T6	P2	2535	-	JExxxxx	
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 0J	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		■ = 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 ZI								
		415V 2P	CD 892 ZL								
		420V 2X	CD 895 ZK								
		450V 2W									
		500V 2H									
		550V 2Y									
		575V 2Z									
600V 2S											
630V J2											



2 PIN TYPE: T6P2 / T4P2 STANDARD

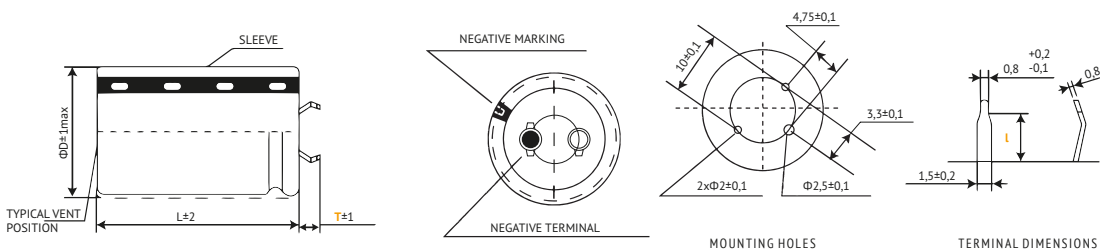


Standard Version: Self-Lock Terminal. Other terminal types and styles on request.
For diameter $\phi D \geq 45$ mm the safety vent is typically placed at the side of the housing.

Terminal	T6 (preferred)	T4
Pin Length T	6,3 mm	4,0 mm
Pin Detail l	3,5 mm	2,5 mm

in mm

3 PIN TYPE: T4P3

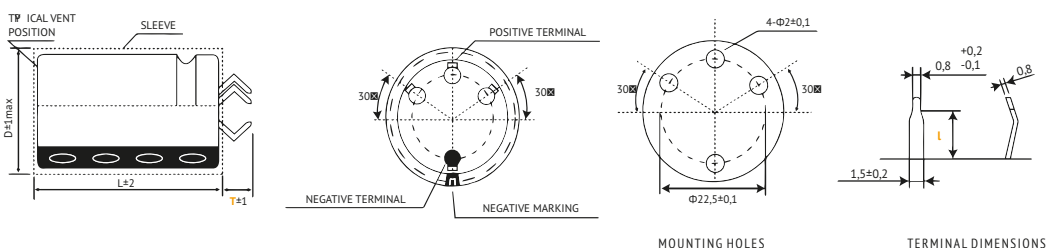


For diameter $\phi D \geq 45$ mm the safety vent is typically placed at the side of the housing.

Terminal	T6	T4
Pin Length T	-	4,0 mm
Pin Detail l	-	2,5 mm

in mm

4 PIN TYPE: T6P4/T4P4 STANDARD



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

Terminal	T6 (preferred)	T4
Pin Length T	6,3 mm	4,0 mm
Pin Detail l	3,5 mm	2,5 mm

in mm

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