



**CAPACITOR
COMPETENCE**
since 1958

ALUMINUM ELECTROLYTIC CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

CD 29G BA SERIES

JIANGHAI EUROPE
Electronic Components GmbH

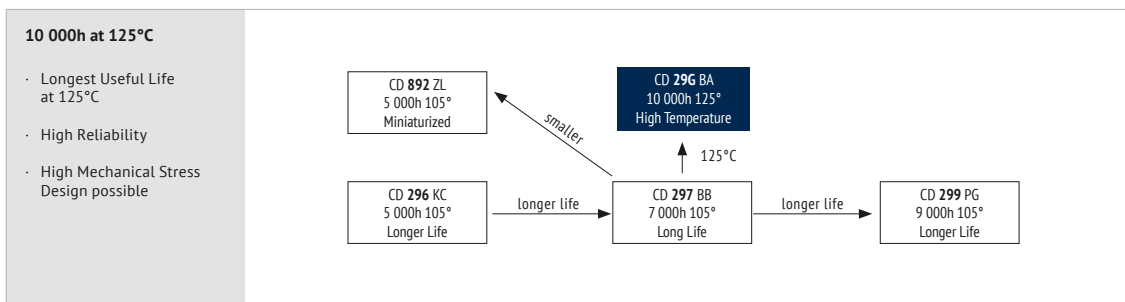


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ITEM CHARACTERISTICS

Operating Temperature Range (°C)	-40 ~ +125
Voltage Range (V)	25 ~ 63
Capacitance Range (µF)	1 000 ~ 18 000
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.
Vibration	Vibration Design on request
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

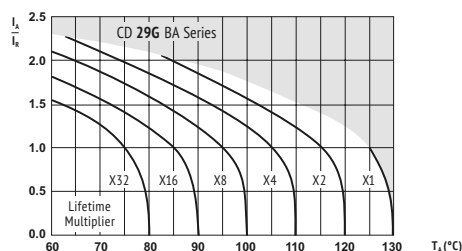
ITEM	USEFUL LIFE		LOAD LIFE	ENDURANCE TEST	SHELF LIFE	
Lifetime	10 000h	≥ 100 000h	5 000h	5 000h	1 000h	
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value	
Capacitance Change	Within ± 30% of initial value		Within ± 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 125°C	U_R $1,4 \times I_R$ 80°C	U_R I_R 125°C	U_R $I_R = 0$ 125°C IEC 60384	$U_R = 0$ $I_R = 0$ 125°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	≥ 10 kHz
Coefficient	0,56	0,70	0,83	0,92	1,00

Multipliers for typical operating conditions.

MULTIPLIER FOR LIFETIME (LIFETIME DIAGRAM)



I_a = actual ripple current at 120Hz.
 I_R = rated ripple current at 120Hz, 125°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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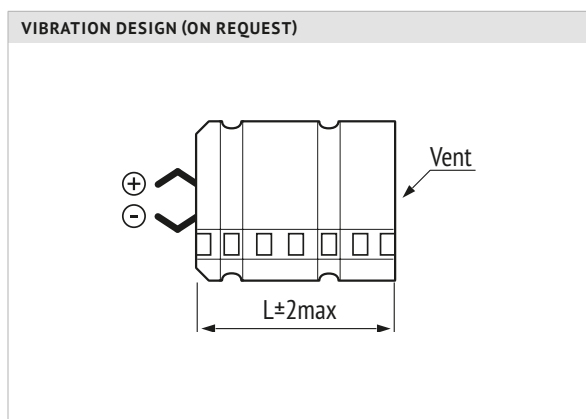
Customer specific adaptations needed? Please contact Jianghai Europe GmbH:
 TELEFON: +49 (0) 2151 652088-72 | E-MAIL: INFO@JIANGHAI-EUROPE.COM

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U _{RDC} (Surge Voltage) Code	C _R Rated Capacitance	ESR _{max} Equivalent Series Resistance		tanδ Dissipation Factor	I _{leak} Leakage Current	I _{RAC} Rated Ripple Current	Size øD x L	ORDER CODE
		20°C 120Hz	20°C 10kHz					
(V)	(µF)	(mΩ)	(mΩ)		(mA)	(Arms)	(mm)	Details: Page 4
25 (32) 1E	3 900	34	32	0,20	1,0	4,5	25 x 35	ECS1EBA392M000ΔΔ2535
	5 600	27	23	0,20	1,4	5,3	25 x 40	ECS1EBA562M000ΔΔ2540
	6 800	19	15	0,20	1,5	6,9	25 x 40	ECS1EBA682M000ΔΔ2540
	10 000	14	12	0,20	1,5	8,8	25 x 50	ECS1EBA103M000ΔΔ2550
	12 000	12	11	0,20	1,5	9,6	30 x 50	ECS1EBA123M000ΔΔ3050
	18 000	11	10	0,20	1,5	9,7	35 x 50	ECS1EBA183M000ΔΔ3550
35 (44) 1V	2 200	45	32	0,15	0,8	4,5	25 x 35	ECS1VBA222M000ΔΔ2535
	3 300	31	24	0,15	1,2	5,0	22 x 40	ECS1VBA332M000ΔΔ2240
	3 900	22	15	0,15	1,4	7,0	25 x 40	ECS1VBA392M000ΔΔ2540
	5 600	16	11	0,15	1,5	9,1	25 x 50	ECS1VBA562M000ΔΔ2550
	6 800	14	11	0,15	1,5	9,5	30 x 50	ECS1VBA682M000ΔΔ3050
	10 000	12	10	0,15	1,5	10,1	35 x 50	ECS1VBA103M000ΔΔ3550
50 (63) 1H	1 000	70	40	0,10	0,5	4,0	25 x 35	ECS1HBA102M000ΔΔ2535
	1 800	37	24	0,10	0,9	5,0	25 x 35	ECS1HBA182M000ΔΔ2535
	2 700	24	15	0,10	1,4	6,9	25 x 40	ECS1HBA272M000ΔΔ2540
	3 900	18	12	0,10	1,5	8,8	25 x 50	ECS1HBA392M000ΔΔ2550
	5 600	15	11	0,10	1,5	9,8	30 x 50	ECS1HBA562M000ΔΔ3050
	6 800	13	11	0,10	1,5	9,9	35 x 50	ECS1HBA682M000ΔΔ3550
63 (79) 1J	1 000	60	40	0,10	0,6	3,0	25 x 35	ECS1JBA102M000ΔΔ2535
	1 500	39	23	0,10	0,9	4,9	25 x 35	ECS1JBA152M000ΔΔ2535
	2 200	26	15	0,10	1,4	6,9	25 x 40	ECS1JBA222M000ΔΔ2540
	2 700	21	12	0,10	1,5	8,8	25 x 50	ECS1JBA272M000ΔΔ2550
	3 900	16	11	0,10	1,5	9,5	30 x 50	ECS1JBA392M000ΔΔ3050
	5 600	13	11	0,10	1,5	9,8	35 x 50	ECS1JBA562M000ΔΔ3550



ORDER CODE SNAP-IN TYPE

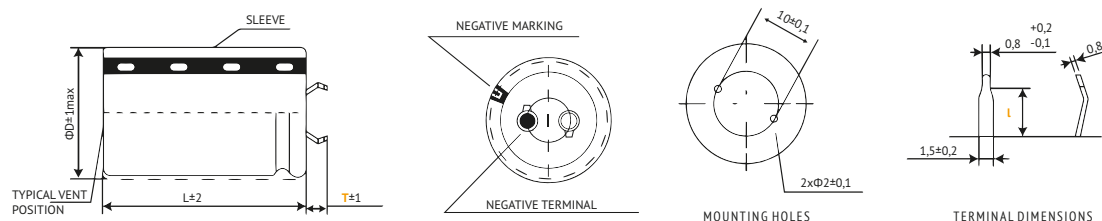
EC	S	2G	QC	221	M	T6	P2	2535	-	JExxxx
Technology	Terminal Type	Rated Voltage Code	Series Code	Capacitance Code	Capacitance Tolerance	Terminal Style	Terminal / Pitch	Dimension (mm)	Material Code	for Specials only
EC Electrolytic Capacitor	Snap-In S	6,3V OJ	CD 293 BZ	0,1 OR1	±20% M	4,0mm Pin Length T/L4	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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2 PIN TYPE: T6P2 / T4P2 STANDARD

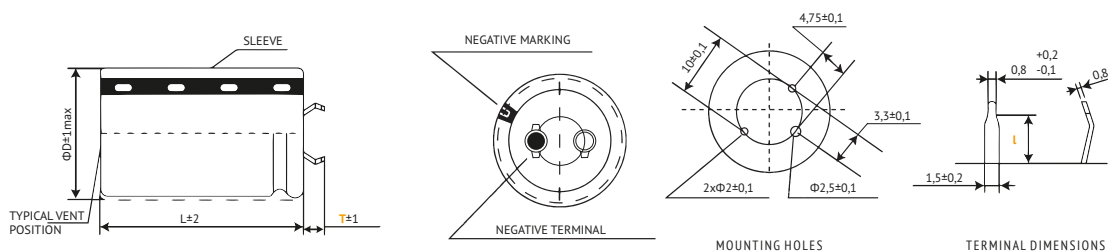


Standard Version: Self-Lock Terminal. Other terminal types and styles on request.
For diameter $\varnothing D \geq 45\text{mm}$ the safety vent is typically placed at the side of the housing.

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

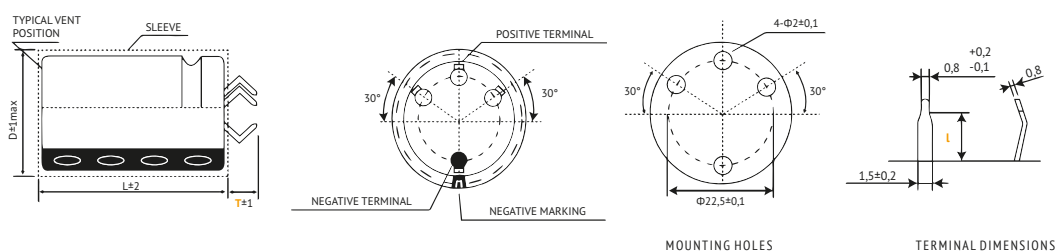


For diameter $\varnothing D \geq 45\text{mm}$ the safety vent is typically placed at the side of the housing.

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 $\varnothing D \geq 30\text{mm}$ only.
For diameter $\varnothing D \geq 45\text{mm}$ 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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