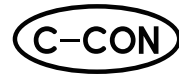


GMP CD295



华拓国际电子有限公司
Huatu Enterprise Co., Ltd

SNAP-IN/LUG

5000h at 85°C

- Long Life at 85°C
- High Ripple Current
- Long Life General Industrial Electronics

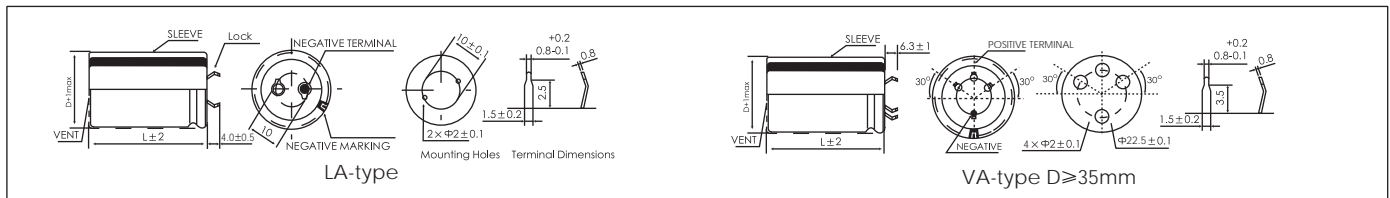


Items	Characteristics	
Operating Temperature Range (°C)	-40 ~ +85	-25 ~ +85
Voltage Range (V)	160 ~ 400	420 ~ 500
Capacitance Range (µF)	100 ~ 2200	
Capacitance Tolerance (20°C, 120Hz)	± 20%	
Leakage Current (µA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C: Nominal Capacitance (µF) V: Rated Voltage (V)	
Dissipation Factor (20°C, 120Hz)	0.15	
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	160~200 250~400 420~500
	$Z_{-25°C} / Z_{+20°C}$	3 4
	$Z_{-40°C} / Z_{+20°C}$	6 8 -

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	6000h	>100000h	5000h	5000h	1000h
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: Applied Voltage Applied Current Applied Temperature	U_R I_R 85°C	U_R $1.2 \times I_R$ 40°C	U_R I_R 85°C	U_R $I_R = 0$ 85°C	$U_R = 0$ $I_R = 0$ 85°C After test: U_R to be applied for 30min >24h before measurement

Dimensions

mm



Frequency Coefficient

Voltage (V)	Frequency	50/60Hz	120Hz	300Hz	1kHz	10kHz	≥50kHz
	≥ 160		0.80	1.00	1.16	1.30	1.41

Temperature Coefficient

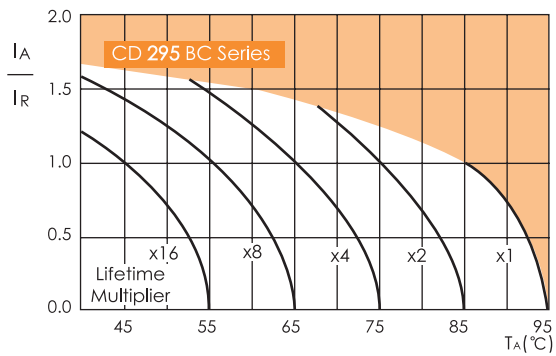
Temperature (°C)	+40	+55	+70	+85
Rated Voltage (V) ≥ 160	1.7	1.5	1.3	1.0

Ratings for CD 295 Series

U_R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size $\Phi D \times L$
(V)	(μF)	(m Ω)	(m Ω)	(Arms)	(mm)
500 (550) 2H	390	511	409	2.3	35 × 40
	470	424	339	2.4	30 × 50
	470	424	339	2.5	35 × 45
	560	356	285	2.8	35 × 50
	680	293	235	3.2	35 × 55
	820	242	194	3.5	35 × 60

Customer products are available on request.

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 and ripple current load