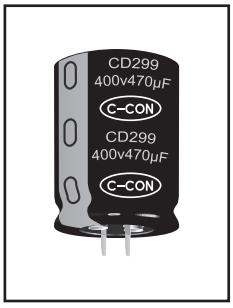
PXR CD299

C-CON 华拓国际电子有限公司 Huatuo Enterprise Co., Ltd

SNAP-IN/LUG

7000h at 105℃

- Extended Lifetime at 105℃
- High Ripple Current
- High Professional Industrial Power Supplies



□□□	PXR	□□□	□	□□	DXL
Rated voltage	Series	Rated Capacitance	Capacitance tolerance	Terminal Code	Sleeve Color

Items	Characteristics	
Operating Temperature Range (℃)	-40 ~ +105	-25 ~ +105
Voltage Range (V)	160 ~ 250	315 ~ 500
Capacitance Range (μF)	120 ~ 2200	
Capacitance Tolerance (20℃, 120Hz)	± 20%	
Leakage Current (μA)	After 5 minutes at 20℃ 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℃, 120Hz)

Rated Voltage (V)	160	180	200	250	315	400	450~500
Tan δ (max)	0.15						0.20

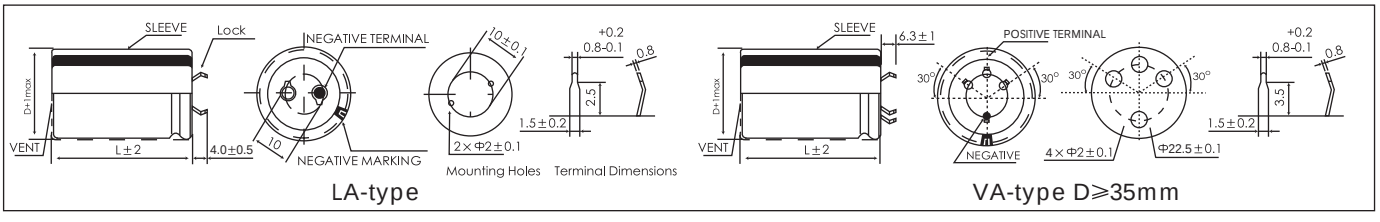
Stability at Low Temperature (Impedance Ratio at 120Hz)

Rated Voltage (V)	⩽ 250	315 ~ 500
$Z_{-25℃} / Z_{+20℃}$	3	8
$Z_{-40℃} / Z_{+20℃}$	12	-

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	9000h	>200000h	7000h	7000h	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 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U_R I_R 105℃	U_R 1.4 x I_R 50℃	U_R I_R 105℃	U_R I_R = 0 105℃	U_R = 0 I_R = 0 105℃ After test: U_R to be applied for 30min >24h before measurement

Dimensions

mm



Frequency Coefficient

Frequency / Rated Voltage (V)	50/60Hz	120Hz	300Hz	1kHz	10kHz	⩾40kHz
160 ~ 250	0.80	1.00	1.17	1.30	1.45	1.50
⩾315	0.80	1.00	1.16	1.30	1.43	1.45

Temperature Coefficient

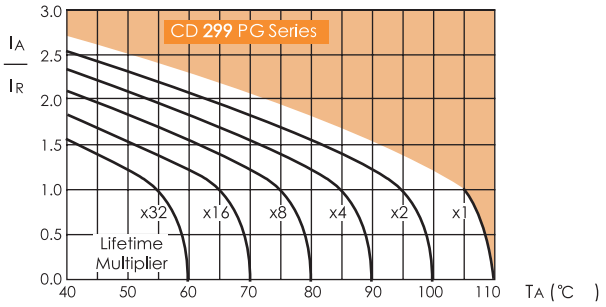
Temperature(℃)	+40	+55	+70	+85	+105
Coefficient	2.7	2.5	2.1	1.7	1.0

Ratings for CD 299 Series

U_R (Surge Voltage) Code	Rated Capa-citance	Max ESR 20℃, 120Hz	Typ ESR 20℃, 120Hz	Rated Ripple Current 105℃, 120Hz	Size ΦD x L
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
160 (200) 2C	560	355	249	1.5	22×40
		355	249	1.5	30×25
	680	293	205	1.7	22×45
		293	205	1.7	25×35
		293	205	1.7	30×30
	820	243	170	2	25×40
	1000	199	139	2.2	25×45
		199	139	2.2	30×35
	1200	166	116	2.3	25×50
		166	116	2.3	30×40
		166	116	2.3	35×35
	1500	133	93	2.5	30×45
		133	93	2.5	35×40
	1800	111	77	2.7	30×50
		111	77	2.7	35×45
	2200	91	63	2.9	35×50
180 (225) 2K	560	355	249	1.5	22×40
		355	249	1.5	25×35
	680	293	205	1.7	22×50
		293	205	1.7	25×40
		293	205	1.7	30×30
	820	243	170	2	25×45
		243	170	2	30×35
		243	170	2	35×30
	1000	199	139	2.2	30×40
	1200	166	116	2.3	30×45
		166	116	2.2	35×35
	1500	133	93	2.5	30×50
		133	93	2.5	35×40
	1800	111	77	2.7	35×45
	2200	91	63	2.9	35×50
200 (250) 2D	470	424	296	1.4	22×40
		424	296	1.4	25×35
		424	296	1.4	30×30
	560	355	249	1.5	22×45
	680	293	205	1.7	25×40
		293	205	1.7	30×35
	820	243	170	2	25×50
		243	170	2	30×40
		243	170	2	35×30
	1000	199	139	2.2	30×45
		199	139	2.2	35×35
	1200	166	116	2.3	30×50
		166	116	2.3	35×40
	1500	133	93	2.5	35×50
250 (300) 2E	330	603	422	1.2	22×40
		603	422	1.2	25×35
	390	510	357	1.3	22×45
		510	357	1.3	25×40
		510	357	1.3	30×30
	470	424	296	1.4	25×45
		424	296	1.4	30×35
		424	296	1.4	35×30
	560	355	249	1.5	25×50
	680	293	205	1.7	30×45
		293	205	1.7	35×35
	820	243	170	2	30×50
		243	170	2	35×40
	1000	199	139	2.2	35×45
	1200	166	116	2.3	35×50
315 (365) 2F	220	905	498	1	22×45
		905	498	1	25×40
		905	498	1	30×30
	270	737	406	1.1	25×45
		737	406	1.1	30×35
		737	406	1.1	35×30
	330	603	332	1.2	25×50
		603	332	1.2	30×40
	390	510	281	1.3	30×45
		510	281	1.3	35×35
	470	424	233	1.4	30×50
		424	233	1.4	35×40
	560	355	196	1.5	35×45
	680	293	161	1.7	35×50
400 (450) 2G	120	1659	912	0.62	22×40
		1659	912	0.64	25×35
	150	1327	730	0.69	22×50
		1327	730	0.69	25×40
	180	1106	608	0.72	25×45
		1106	608	0.78	30×35
	220	905	498	0.83	25×50
		905	498	0.81	30×40
	270	737	406	0.89	30×35
		737	406	0.82	35×25
	330	603	332	1.07	30×40

U_R (Surge Voltage) Code	Rated Capa-citance	Max ESR 20℃, 120Hz	Typ ESR 20℃, 120Hz	Rated Ripple Current 105℃, 120Hz	Size ΦD x L
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
400 (450) 2G	330	603	332	1.02	35×30
	390	510	281	1.18	35×35
		510	281	1.21	30×45
	470	424	233	1.23	30×50
		424	233	1.22	35×40
	560	356	196	1.5	30×55
		356	196	1.5	35×45
	680	293	161	1.79	35×50
	820	243	134	2.07	35×55
450 (500) 2W	120	2212	995	0.69	25×30
	150	1769	796	0.77	25×35
		1769	796	0.73	30×25
	180	1474	664	0.83	25×40
		1474	664	0.81	30×30
	220	1206	543	0.96	30×35
		1206	543	0.89	35×25
	270	983	442	1.09	30×40
		983	442	1.04	35×30
	330	804	362	1.21	30×45
		804	362	1.18	35×35
	390	680	306	1.24	30×50
		680	306	1.23	35×40
	470	565	254	1.41	30×55
		565	254	1.41	35×45
	560	474	213	1.58	30×60
		474	213	1.6	35×50
	680	390	176	1.83	35×55
	820	324	146	2.07	35×60
500 (550) 2H	120	2212	1106	0.72	22×50
		2212	1106	0.68	25×40
	150	1769	885	0.85	25×45
		1769	885	0.8	30×30
	180	1474	737	0.92	25×50
		1474	737	0.87	30×35
		1474	737	0.88	35×30
	220	1206	603	1.02	30×40
		1206	603	1.05	35×35
	270	983	492	1.09	30×45
		983	492	1.19	30×50
		983	492	1.18	35×40
	330	804	402	1.28	30×55
		804	402	1.28	35×45
	390	680	340	1.43	30×60
		680	340	1.45	35×50
	470	565	282	1.59	35×60

Lifetime Diagram



IA = actual ripple current at 120Hz, IR = rated ripple current at 120Hz, 105℃
Multiplier of Useful Life as a function of ambient temperature and ripple current load