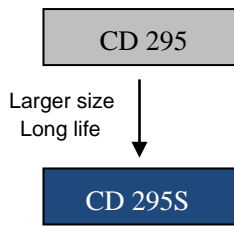


CD295S Snap In Aluminum Electrolytic Capacitors



5000 hours at 85°C

- Larger Size Components
- Long Useful Life
- High Ripple Current
- Industrial Power Supplies
- Voltage derating ($0.93 \cdot V_R$) enables 105°C operation

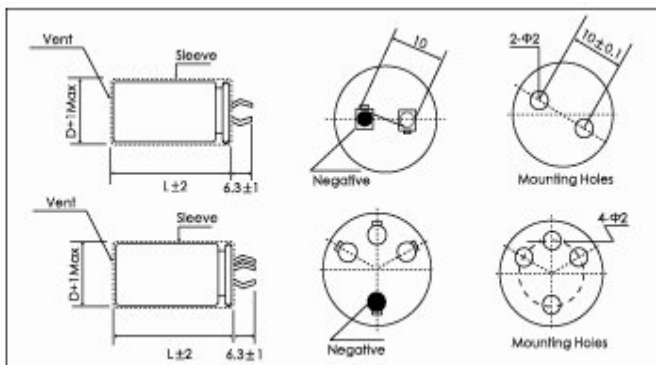


Items	Characteristics			
Operating Temperature Range(°C)	-40 ~ +85		-25 ~ +85	
Voltage Range (V)	160~400		450 ~ 500	
Capacitance Range(μF)	390~4700			
Capacitance Tolerance (20°C,120Hz)	±20%			
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller C:Nominal Capacitance(μF) V:Rated Voltage(V)			
Dissipation Factor (20°C, 120Hz)	WV(V)	160~500		
	Tan δ	0.15		
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	160~200	250~400	450~500
	$Z_{-25°C} / Z_{+20°C}$	3	4	
	$Z_{-40°C} / Z_{+20°C}$	6	8	-

Life Time	Useful Life		Load Life	Endurance Life	Shelf Life
		12000h	> 100000h	5000h	7000h
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	No 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 85°C	U_r 1.2x I_r 40°C	U_r I_r 85°C	U_r $I_r=0$ 85°C	After test: U_r to be applied for 30min>24h before measurement

Dimensions

mm



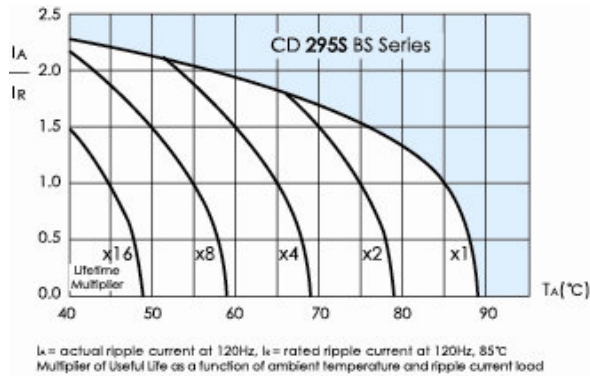
Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85
Factor	2.3	2.1	1.75	1.0

Frequency Coefficient

Frequency (Hz)	50/60	120	300	1K	10K	≥50K
Factor	0.80	1.00	1.16	1.30	1.41	1.45

Lifetime Diagram



Ratings for CD 295S 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 ΦD×L
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
160 (200) 2C	2200	91	63	4.9	35x45
	2700	74	52	5.3	35x50
	3300	60	42	5.5	35x70
		60	42	5.5	40x60
	3900	51	36	5.9	35x80
4700	42	30	7.3	40x80	
200 (250) 2D	1500	133	93	4.3	35x40
	1800	111	77	4.7	35x45
		91	63	5.4	35x50
	2200	91	63	5.4	40x40
		74	52	5.9	35x60
	2700	74	52	5.9	40x50
		60	42	6.5	35x80
	3300	60	42	6.5	40x60
51		36	7.0	40x80	
250 (300) 2E	1000	199	139	3.7	35x40
	1200	166	116	3.8	35x45
		133	93	4.4	35x50
	1500	133	93	4.5	40x40
		111	77	5.0	35x70
	1800	111	77	5.0	40x50
		91	63	5.4	35x70
	2200	74	52	6.9	40x80
350 (400) 2V	680	293	205	3.6	35x45
		293	205	3.6	40x40
	820	243	170	4.5	35x60
		243	170	4.5	40x50
	1000	199	139	5.2	35x70
		199	139	4.9	40x60
	1200	166	116	5.5	35x80
		166	116	5.6	40x70
	1500	133	93	6.5	40x80
		133	93	6.2	45x70
	1800	111	77	7.9	40x100
		111	77	7.1	45x70
	2200	91	63	8.7	40x100

Ratings for CD 295S 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 ΦD×L
(v)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
400 (450) 2G	560	355	249	3.2	35x50
		355	249	2.8	40x40
	680	293	205	3.7	35x60
		293	205	3.8	40x50
	820	243	170	4.2	35x60
		243	170	4.1	40x50
	1000	199	139	4.9	35x70
		199	139	4.8	40x60
		199	139	4.6	45x50
	1200	166	116	5.8	35x80
		166	116	5.5	40x70
	1500	133	93	6.9	40x80
		133	93	6.6	45x70
		133	93	6.8	45x80
	1800	111	77	7.9	40x90
		111	77	7.3	45x80
450 (500) 2W	470	424	296	3.0	35x50
		424	296	3.0	40x40
	560	355	249	3.1	35x50
		355	249	3.3	35x60
		355	249	3.4	40x50
	680	293	205	3.5	35x60
		293	205	3.8	35x70
		293	205	3.8	40x60
	820	243	170	4.6	35x80
		243	170	4.4	40x60
	1000	199	139	5.7	35x80
		199	139	5.2	40x60
	1200	166	116	5.9	40x70
		166	116	6.2	45x70
	1500	133	93	7.3	40x100
		133	93	7.0	45x80
1800	111	77	7.9	45x100	
500 (550) 2H	390	510	357	1.9	35x50
	470	424	296	2.3	35x60
	560	355	249	2.5	35x60
		355	249	2.7	40x60
	680	293	205	3.1	35x80
		293	205	2.8	40x70
	820	243	170	3.4	35x90
		243	170	3.3	40x70
	1000	199	139	3.9	40x80
		199	139	3.9	45x70
	1200	166	116	4.3	40x90
	1500	133	93	4.8	40x100

Customer products are available on request