CD295S BS SERIES

5000 hours at 85°C

- Larger Size Components
- Long Useful Life
- High Ripple Current
- Industrial Power Supplies
- Voltage derating (0.93*V_R) enables 105℃operation

CD 295 BC

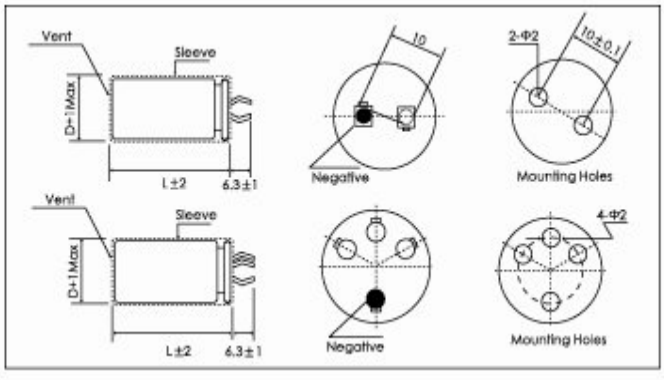
Larger size
Long life

CD 295S BS

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 $Z_{-25℃}$ / $Z_{+20℃}$ 3 4 $Z_{-40℃}$ / $Z_{+20℃}$ 6 8 -	

	Useful Life		Load Life	Endurance Life	Shelf Life
Life Time	12000h	＞100000h	5000h	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	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	Ur Ir 85°C	Ur 1.2xIr 40°C	Ur Ir 85°C	Ur Ir= 0 85°C	Ur=0 Ir= 0 85℃ After test: U_R to be applied for 30min>24h before measurement

Dimensions mm



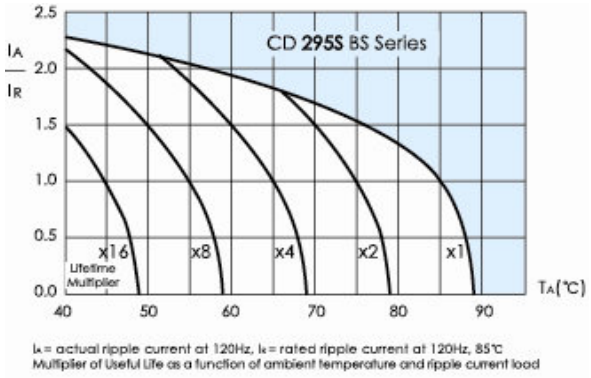
Frequency Coefficient

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

Temperature Coefficient

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

Lifetime Diagram



Ratings for CD 295S BS series

U_R (Surge Voltage) Code	Rated Capacitance	Max. ESR 20℃,120Hz	Typ. ESR 20℃,120Hz	Rated Ripple Current 85℃, 120Hz	Size ΦD×L	P/N.
(v)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 (200) 2C	2200	91	63	4.9	35x45	ECS2CBS222M□□350045
	2700	74	52	5.3	35x50	ECS2CBS272M□□350050
	3300	60	42	5.5	35x70	ECS2CBS332M□□350070
		60	42	5.5	40x60	ECS2CBS332M□□400060
	3900	51	36	5.9	35x80	ECS2CBS392M□□350080
	4700	42	30	7.3	40x80	ECS2CBS472M□□400080
200 (250) 2D	1500	133	93	4.3	35x40	ECS2DBS152M□□350040
	1800	111	77	4.7	35x45	ECS2DBS182M□□350045
	2200	91	63	5.4	35x50	ECS2DBS222M□□350050
		91	63	5.4	40x40	ECS2DBS222M□□400040
	2700	74	52	5.9	35x60	ECS2DBS272M□□350060
		74	52	5.9	40x50	ECS2DBS272M□□400050
	3300	60	42	6.5	35x80	ECS2DBS332M□□350080
		60	42	6.5	40x60	ECS2DBS332M□□400060
	3900	51	36	7.0	40x80	ECS2DBS392M□□400080
	4700	42	30	9.2	40x90	ECS2DBS472M□□400090
250 (300) 2E	1000	199	139	3.7	35x40	ECS2EBS102M□□350040
	1200	166	116	3.8	35x45	ECS2EBS122M□□350045
	1500	133	93	4.4	35x50	ECS2EBS152M□□350050
		133	93	4.5	40x40	ECS2EBS152M□□400040
	1800	111	77	5.0	35x70	ECS2EBS182M□□350070
		111	77	5.0	40x50	ECS2EBS182M□□400050
	2200	91	63	5.4	35x70	ECS2EBS222M□□350070
	2700	74	52	6.9	40x80	ECS2EBS272M□□400080
350 (400) 2V	680	293	205	3.6	35x45	ECS2VBS681M□□350045
		293	205	3.6	40x40	ECS2VBS681M□□400040
	820	243	170	4.5	35x60	ECS2VBS821M□□350060
		243	170	4.5	40x50	ECS2VBS821M□□400050
	1000	199	139	5.2	35x70	ECS2VBS102M□□350070
		199	139	4.9	40x60	ECS2VBS102M□□400060
	1200	166	116	5.5	35x80	ECS2VBS122M□□350080
		166	116	5.6	40x70	ECS2VBS122M□□400070
	1500	133	93	6.5	40x80	ECS2VBS152M□□400080
		133	93	6.2	45x70	ECS2VBS152M□□450070
	1800	111	77	7.9	40x100	ECS2VBS182M□□400100
		111	77	7.1	45x70	ECS2VBS182M□□450070
	2200	91	63	8.7	40x100	ECS2VBS222M□□400100
400 (450) 2G	560	355	249	3.2	35x50	ECS2GBS561M□□350050
		355	249	2.8	40x40	ECS2GBS561M□□400040
	680	293	205	3.7	35x60	ECS2GBS681M□□350060
		293	205	3.8	40x50	ECS2GBS681M□□400050
	820	243	170	4.2	35x60	ECS2GBS821M□□350060
		243	170	4.1	40x50	ECS2GBS821M□□400050
	1000	199	139	4.9	35x70	ECS2GBS102M□□350070
		199	139	4.8	40x60	ECS2GBS102M□□400060
		199	139	4.6	45x50	ECS2GBS102M□□450050
	1200	166	116	5.8	35x80	ECS2GBS122M□□350080
		166	116	5.5	40x70	ECS2GBS122M□□400070
	1500	133	93	6.9	40x80	ECS2GBS152M□□400080
		133	93	6.6	45x70	ECS2GBS152M□□450070
		133	93	6.8	45x80	ECS2GBS152M□□450080
	1800	111	77	7.9	40x90	ECS2GBS182M□□400090
		111	77	7.3	45x80	ECS2GBS182M□□450080
450 (500) 2W	470	424	296	3.0	35x50	ECS2WBS471M□□350050
		424	296	3.0	40x40	ECS2WBS471M□□400040
	560	355	249	3.1	35x50	ECS2WBS561M□□350050
		355	249	3.3	35x60	ECS2WBS561M□□350060
		355	249	3.4	40x50	ECS2WBS561M□□450050
	680	293	205	3.5	35x60	ECS2WBS681M□□350060
		293	205	3.8	35x70	ECS2WBS681M□□350070
		293	205	3.8	40x60	ECS2WBS681M□□400060
	820	243	170	4.6	35x80	ECS2WBS821M□□350080
		243	170	4.4	40x60	ECS2WBS821M□□400060

Ratings for CD 295S BS series

U_R (Surge Voltage) Code	Rated Capacitance	Max. ESR 20℃,120Hz	Typ. ESR 20℃,120Hz	Rated Ripple Current 85℃, 120Hz	Size ΦD×L	P/N.
(v)	(uF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
450 (500) 2w	1000	199	139	5.7	35x80	ECS2WBS102M□□350080
		199	139	5.2	40x60	ECS2WBS102M□□400060
	1200	166	116	5.9	40x70	ECS2WBS122M□□400070
		166	116	6.2	45x70	ECS2WBS122M□□450070
	1500	133	93	7.3	40x100	ECS2WBS152M□□400100
		133	93	7.0	45x80	ECS2WBS152M□□450080
	1800	111	77	7.9	45x100	ECS2WBS182M□□450100
500 (550) 2H	390	510	357	1.9	35x50	ECS2HBS391M□□350050
	470	424	296	2.3	35x60	ECS2HBS471M□□350060
	560	355	249	2.5	35x60	ECS2HBS561M□□350060
		355	249	2.7	40x60	ECS2HBS561M□□400060
	680	293	205	3.1	35x80	ECS2HBS681M□□350080
		293	205	2.8	40x70	ECS2HBS681M□□400070
	820	243	170	3.4	35x90	ECS2HBS821M□□350090
		243	170	3.3	40x70	ECS2HBS821M□□400070
	1000	199	139	3.9	40x80	ECS2HBS102M□□400080
		199	139	3.9	45x70	ECS2HBS102M□□450070
	1200	166	116	4.3	40x90	ECS2HBS122M□□400090
	1500	133	93	4.8	40x100	ECS2HBS152M□□400100

Customer products are available on request.