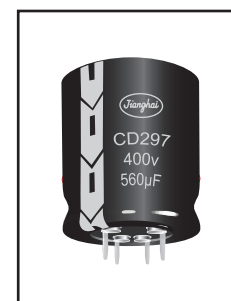
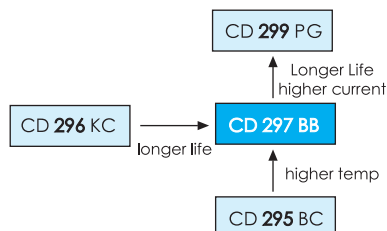


5000h at 105°C

- Extended Lifetime at 105°C
- High Ripple Current
- High Professional Switch Mode Power Supplies
- Frequency Converters

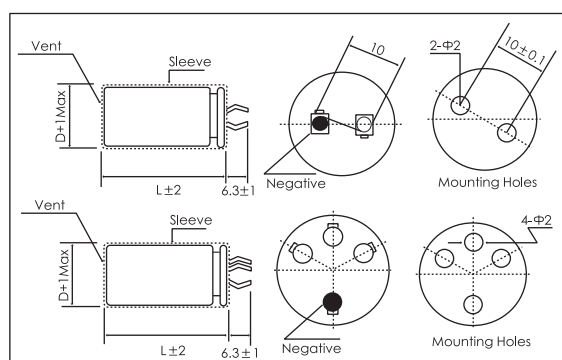


Items	Characteristics	
Operating Temperature Range (°C)	-40 ~ +105	-25 ~ +105
Voltage Range (V)	10 ~ 100	160 ~ 550
Capacitance Range (μF)	47 ~ 56000	
Capacitance Tolerance (20°C, 120Hz)	± 20%	
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C: Nominal Capacitance (μF) V: Rated Voltage (V)	
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	10 16 25 35 50 63 80 100 160~400 450~550
	Tan δ (max)	0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.20
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	10~100 160~250 315~500
	$Z_{-25^{\circ}\text{C}} / Z_{+20^{\circ}\text{C}}$	4 3 8
	$Z_{-40^{\circ}\text{C}} / Z_{+20^{\circ}\text{C}}$	15 - -

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	7000h	>200000h	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 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U_R I_R 105°C	U_R $1.6 \times I_R$ 40°C	U_R I_R 105°C	U_R $I_R = 0$ 105°C	$U_R = 0$ $I_R = 0$ 105°C After test: U_R to be applied for 30min >24h before measurement

Dimensions

mm



Frequency Coefficient

Frequency	50/60Hz	120Hz	500Hz	1kHz	10kHz	≥40kHz
Rated Voltage (V)						
10 ~ 100	0.90	1.00	1.10	1.15	1.15	1.15
160 ~ 250	0.80	1.00	1.20	1.30	1.45	1.50
≥315	0.80	1.00	1.20	1.30	1.42	1.45

Temperature Coefficient

Temperature(°C)	+40	+55	+70	+80	+105
Coefficient	2.7	2.5	2.1	1.7	1.0

Ratings for CD 297 BB Series

U _R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
10 (13) 1A	8200	89	62	1.36	22×25	ECS1ABB822M□□220025
	10000	73	51	1.65	22×30	ECS1ABB103M□□220030
	12000	61	43	1.85	22×35	ECS1ABB123M□□220035
		61	43	1.82	25×25	ECS1ABB123M□□250025
	15000	49	34	2.12	22×40	ECS1ABB153M□□220040
		49	34	2.11	25×30	ECS1ABB153M□□250030
		49	34	2.14	30×25	ECS1ABB153M□□300025
	18000	41	28	2.4	22×45	ECS1ABB183M□□220045
		41	28	2.32	25×35	ECS1ABB183M□□250035
	22000	33	23	2.59	25×40	ECS1ABB223M□□250040
		33	23	2.73	30×30	ECS1ABB223M□□300030
		27	19	3.01	25×45	ECS1ABB273M□□250045
	27000	27	19	3.13	30×35	ECS1ABB273M□□300035
		27	19	3.05	35×30	ECS1ABB273M□□350030
		22	16	3.43	25×50	ECS1ABB333M□□250050
	33000	22	16	3.53	30×40	ECS1ABB333M□□300040
		22	16	3.49	35×35	ECS1ABB333M□□350035
	39000	19	13	3.78	30×45	ECS1ABB393M□□300045
		19	13	3.96	35×40	ECS1ABB393M□□350040
	47000	16	11	4.58	30×50	ECS1ABB473M□□300050
		16	11	4.6	35×45	ECS1ABB473M□□350045
	56000	13	9	5.06	35×50	ECS1ABB563M□□350050
16 (20) 1C	5600	119	83	1.44	22×25	ECS1CBB562M□□220025
	6800	98	68	1.66	22×30	ECS1CBB682M□□220030
	8200	81	57	1.67	25×25	ECS1CBB822M□□250025
		66	46	2.08	22×35	ECS1CBB103M□□220035
	10000	66	46	2.07	25×30	ECS1CBB103M□□250030
		55	39	2.36	22×40	ECS1CBB123M□□220040
	12000	55	39	2.37	25×35	ECS1CBB123M□□250035
		55	39	2.33	30×25	ECS1CBB123M□□300025
		44	31	2.69	22×45	ECS1CBB153M□□220045
	15000	44	31	2.72	25×40	ECS1CBB153M□□250040
		44	31	2.54	30×30	ECS1CBB153M□□300030
		37	26	3.06	25×45	ECS1CBB183M□□250045
	18000	37	26	3.02	30×35	ECS1CBB183M□□300035
		37	26	3.09	35×30	ECS1CBB183M□□350030
	22000	30	21	3.39	25×50	ECS1CBB223M□□250050
		30	21	3.46	30×40	ECS1CBB223M□□300040
	27000	25	17	3.88	30×45	ECS1CBB273M□□300045
		25	17	3.85	35×35	ECS1CBB273M□□350035
	33000	20	14	4.33	30×50	ECS1CBB333M□□300050
		20	14	4.33	35×40	ECS1CBB333M□□350040
	39000	17	12	4.96	35×45	ECS1CBB393M□□350045
25 (32) 1E	47000	14	10	5.49	35×50	ECS1CBB473M□□350050
	3900	153	107	1.31	22×25	ECS1EBB392M□□220025
	4700	127	89	1.55	22×30	ECS1EBB472M□□220030
	5600	107	75	1.77	22×35	ECS1EBB562M□□220035
		107	75	1.76	25×25	ECS1EBB562M□□250025
	6800	88	62	2.02	22×40	ECS1EBB682M□□220040
		88	62	1.88	25×30	ECS1EBB682M□□250030
	8200	73	51	2.27	22×45	ECS1EBB822M□□220045
		73	51	2.18	25×35	ECS1EBB822M□□250035
		73	51	2.19	30×25	ECS1EBB822M□□300025
	10000	60	42	2.56	22×50	ECS1EBB103M□□220050
		60	42	2.53	25×40	ECS1EBB103M□□250040
		60	42	2.38	30×30	ECS1EBB103M□□300030
	12000	50	35	2.79	25×45	ECS1EBB123M□□250045
		50	35	2.7	30×35	ECS1EBB123M□□300035
		50	35	2.76	35×30	ECS1EBB123M□□350030
	15000	40	28	3.13	30×40	ECS1EBB153M□□300040
	18000	33	23	3.52	30×45	ECS1EBB183M□□300045
		33	23	3.5	35×35	ECS1EBB183M□□350035
	22000	27	19	3.92	30×50	ECS1EBB223M□□300050
		27	19	3.95	35×40	ECS1EBB223M□□350040
	27000	22	16	4.72	35×50	ECS1EBB273M□□350050
35 (44) 1V	2700	197	138	1.29	22×25	ECS1VBB272M□□220025
	3300	161	113	1.54	22×30	ECS1VBB332M□□220030
	3900	136	95	1.77	22×35	ECS1VBB392M□□220035
		136	95	1.75	25×25	ECS1VBB392M□□250025
	4700	113	79	2.01	22×40	ECS1VBB472M□□220040
		113	79	1.97	25×30	ECS1VBB472M□□250030
	5600	95	66	2.25	22×45	ECS1VBB562M□□220045
		95	66	2.18	25×35	ECS1VBB562M□□250035
		95	66	2.08	30×25	ECS1VBB562M□□300025
	6800	78	55	2.49	22×50	ECS1VBB682M□□220050
		78	55	2.45	25×40	ECS1VBB682M□□250040
		78	55	2.28	30×30	ECS1VBB682M□□300030
	8200	65	45	2.8	25×45	ECS1VBB822M□□250045
		65	45	2.69	30×35	ECS1VBB822M□□300035
	10000	53	37	3.04	30×40	ECS1VBB103M□□300040
		53	37	2.78	35×30	ECS1VBB103M□□350030
	12000	44	31	3.38	30×45	ECS1VBB123M□□300045
		44	31	3.3	35×35	ECS1VBB123M□□350035
	15000	35	25	3.98	35×40	ECS1VBB153M□□350040
	18000	30	21	4.4	35×45	ECS1VBB183M□□350045

U _R (Surge Voltage) Code	Rated Capa- cittance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
50 (63) 1H	1500	310	217	1.21	22×25	ECS1HBB152M□□220025
	2200	211	148	1.52	22×30	ECS1HBB222M□□220030
		211	148	1.46	25×25	ECS1HBB222M□□250025
	2700	172	120	1.77	22×35	ECS1HBB272M□□220035
		172	120	1.76	25×30	ECS1HBB272M□□250030
	3300	141	99	2.02	22×40	ECS1HBB332M□□220040
		141	99	1.92	30×25	ECS1HBB332M□□300025
		119	83	2.27	22×45	ECS1HBB392M□□220045
	3900	119	83	2.2	25×35	ECS1HBB392M□□250035
		119	83	2.19	30×30	ECS1HBB392M□□300030
		99	69	2.43	25×40	ECS1HBB472M□□250040
	5600	83	58	2.72	25×45	ECS1HBB562M□□250045
		83	58	2.58	30×35	ECS1HBB562M□□300035
		83	58	2.35	35×30	ECS1HBB562M□□350030
	6800	68	48	3.01	30×40	ECS1HBB682M□□300040
		68	48	2.91	35×35	ECS1HBB682M□□350035
	8200	57	40	3.63	30×50	ECS1HBB822M□□300050
		57	40	3.36	35×40	ECS1HBB822M□□350040
	10000	46	33	3.79	35×45	ECS1HBB103M□□350045
	12000	39	27	4.06	35×50	ECS1HBB123M□□350050
63 (79) 1J	1000	398	279	1.1	22×25	ECS1JBB102M□□220025
	1500	265	186	1.41	22×30	ECS1JBB152M□□220030
		265	186	1.38	25×25	ECS1JBB152M□□250025
	1800	221	155	1.62	22×35	ECS1JBB182M□□220035
		221	155	1.63	25×30	ECS1JBB182M□□250030
	2200	181	127	1.85	22×40	ECS1JBB222M□□220040
		181	127	1.80	30×25	ECS1JBB222M□□300025
	2700	147	103	2.1	22×45	ECS1JBB272M□□220045
		147	103	2.03	25×35	ECS1JBB272M□□250035
		147	103	2.01	30×30	ECS1JBB272M□□300030
	3300	121	84	2.33	25×40	ECS1JBB332M□□250040
	3900	102	72	2.58	25×45	ECS1JBB392M□□250045
		102	72	2.46	30×35	ECS1JBB392M□□300035
		102	72	2.31	35×30	ECS1JBB392M□□350030
	4700	85	59	2.82	30×40	ECS1JBB472M□□300040
		85	59	2.77	35×35	ECS1JBB472M□□350035
	5600	71	50	3.22	30×45	ECS1JBB562M□□300045
		71	50	3.2	35×40	ECS1JBB562M□□350040
	6800	59	41	3.61	35×45	ECS1JBB682M□□350045
	8200	49	34	3.94	35×50	ECS1JBB822M□□350050
80 (100) 1K	820	405	283	1.09	22×25	ECS1KBB821M□□220025
	1000	332	232	1.29	22×30	ECS1KBB102M□□220030
	1200	277	194	1.48	22×35	ECS1KBB122M□□220035
		277	194	1.38	25×25	ECS1KBB122M□□250025
	1500	221	155	1.7	22×40	ECS1KBB152M□□220040
		221	155	1.74	25×30	ECS1KBB152M□□250030
		221	155	1.75	30×25	ECS1KBB152M□□300025
	1800	184	129	1.91	22×45	ECS1KBB182M□□220045
		184	129	1.86	25×35	ECS1KBB182M□□250035
	2200	151	106	2.22	25×45	ECS1KBB222M□□250045
		151	106	2.02	30×30	ECS1KBB222M□□300030
		123	86	2.50	30×35	ECS1KBB272M□□300035
	2700	123	86	2.45	35×30	ECS1KBB272M□□350030
		101	70	2.69	30×40	ECS1KBB332M□□300040
		101	70	2.6	35×35	ECS1KBB332M□□350035
	3900	85	60	2.94	30×45	ECS1KBB392M□□300045
		85	60	3	35×40	ECS1KBB392M□□350040
	4700	71	49	3.44	35×45	ECS1KBB472M□□350045
	5600	59	42	3.72	35×50	ECS1KBB562M□□350050
	100 (125) 2A	560	474	332	1.01	22×25
680		390	273	1.19	22×30	ECS2ABB681M□□220030
820		324	227	1.33	22×35	ECS2ABB821M□□220035
		324	227	1.26	25×25	ECS2ABB821M□□250025
1000		265	186	1.56	22×40	ECS2ABB102M□□220040
		265	186	1.52	25×30	ECS2ABB102M□□250030
		265	186	1.47	30×25	ECS2ABB102M□□300025
1200		221	155	1.76	22×45	ECS2ABB122M□□220045
		221	155	1.76	25×35	ECS2ABB122M□□250035
		221	155	1.76	30×30	ECS2ABB122M□□300030
1500		177	124	2	22×50	ECS2ABB152M□□220050
		177	124	2.03	25×40	ECS2ABB152M□□250040
1800		147	103	2.29	25×45	ECS2ABB182M□□250045
		147	103	2.19	30×35	ECS2ABB182M□□300035
		147	103	2.15	35×30	ECS2ABB182M□□350030
2200		121	84	2.52	30×40	ECS2ABB222M□□300040
		121	84	2.48	35×35	ECS2ABB222M□□350035
		98	69	2.86	30×45	ECS2ABB272M□□300045
2700		98	69	2.87	35×40	ECS2ABB272M□□350040
		3300	80	56	3.25	35×45
3900	68	48	3.56	35×50	ECS2ABB392M□□350050	
160 (200) 2C	220	905	633	0.63	22×25	ECS2CBB221M□□220025
	270	737	516	0.76	22×30	ECS2CBB271M□□220030
	330	603	422	0.9	22×35	ECS2CBB331M□□220035
		603	422	0.84	25×25	ECS2CBB331M□□250025

CD 297 BB SERIES



Ratings for CD 297 BB Series

U _R (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD × L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
160 (200) 2C	390	510	357	0.97	25×30	ECS2CBB391M□□250030
		510	357	1	30×25	ECS2CBB391M□□300025
	470	424	296	1.11	22×40	ECS2CBB471M□□220040
		424	296	1.14	25×35	ECS2CBB471M□□250035
		424	296	1.17	30×30	ECS2CBB471M□□300030
	560	355	249	1.26	22×45	ECS2CBB561M□□220045
		293	205	1.44	22×50	ECS2CBB681M□□220050
	680	293	205	1.43	25×40	ECS2CBB681M□□250040
		293	205	1.5	30×35	ECS2CBB681M□□300035
		243	170	1.63	25×45	ECS2CBB821M□□250045
	820	243	170	1.66	30×40	ECS2CBB821M□□300040
		243	170	1.63	35×30	ECS2CBB821M□□350030
		199	139	1.89	30×45	ECS2CBB102M□□300045
	1000	199	139	1.89	35×35	ECS2CBB102M□□350035
		166	116	2.16	30×50	ECS2CBB122M□□300050
	1200	166	116	2.23	35×40	ECS2CBB122M□□350040
		1500	133	93	35×45	ECS2CBB152M□□350045
	1800	111	77	2.97	35×50	ECS2CBB182M□□350050
180 (225) 2K	220	905	633	0.63	22×25	ECS2KBB221M□□220025
		737	516	0.76	22×30	ECS2KBB271M□□220030
	270	737	516	0.76	25×25	ECS2KBB271M□□250025
		603	422	0.9	22×35	ECS2KBB331M□□220035
	330	603	422	0.9	25×30	ECS2KBB331M□□250030
		510	357	1.03	22×40	ECS2KBB391M□□220040
	390	510	357	1.06	25×35	ECS2KBB391M□□250035
		510	357	1.02	30×25	ECS2KBB391M□□300025
		424	296	1.17	22×45	ECS2KBB471M□□220045
	470	424	296	1.17	30×30	ECS2KBB471M□□300030
		355	249	1.32	22×50	ECS2KBB561M□□220050
	560	355	249	1.32	25×40	ECS2KBB561M□□250040
		355	249	1.33	30×35	ECS2KBB561M□□300035
		293	205	1.51	25×45	ECS2KBB681M□□250045
	680	293	205	1.49	35×30	ECS2KBB681M□□350030
		243	170	1.71	25×50	ECS2KBB821M□□250050
	820	243	170	1.74	30×40	ECS2KBB821M□□300040
		243	170	1.75	35×35	ECS2KBB821M□□350035
		199	139	2.01	30×45	ECS2KBB102M□□300045
	1000	199	139	2.07	35×40	ECS2KBB102M□□350040
		166	116	2.25	30×50	ECS2KBB122M□□300050
	1200	166	116	2.23	35×45	ECS2KBB122M□□350045
		1500	133	93	2.76	35×50
200 (250) 2D	180	1106	774	0.57	22×25	ECS2DBB181M□□220025
		220	905	633	0.7	22×30
	270	737	516	0.83	22×35	ECS2DBB271M□□220035
		737	516	0.76	25×25	ECS2DBB271M□□250025
	330	603	422	0.96	22×40	ECS2DBB331M□□220040
		603	422	0.9	25×30	ECS2DBB331M□□250030
	390	510	357	1.06	25×35	ECS2DBB391M□□250035
		510	357	1.02	30×25	ECS2DBB391M□□300025
	470	424	296	1.17	22×45	ECS2DBB471M□□220045
		424	296	1.22	25×40	ECS2DBB471M□□250040
		424	296	1.17	30×30	ECS2DBB471M□□300030
	560	355	249	1.39	25×45	ECS2DBB561M□□250045
		355	249	1.38	30×35	ECS2DBB561M□□300035
	680	293	205	1.58	25×50	ECS2DBB681M□□250050
		293	205	1.61	30×40	ECS2DBB681M□□300040
		293	205	1.49	35×30	ECS2DBB681M□□350030
	820	243	170	1.85	30×45	ECS2DBB821M□□300045
		243	170	1.75	35×35	ECS2DBB821M□□350035
		199	139	2.11	30×50	ECS2DBB102M□□300050
	1000	199	139	2.07	35×40	ECS2DBB102M□□350040
		1200	166	116	2.38	35×45
	1500	133	93	2.76	35×50	ECS2DBB152M□□350050

U _R (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-	
250 (300) 2E	150	1327	929	0.52	22×25	ECS2EBB151M□□220025	
	180	1106	774	0.64	22×30	ECS2EBB181M□□220030	
		1106	774	0.62	25×25	ECS2EBB181M□□250025	
	220	905	633	0.76	22×35	ECS2EBB221M□□220035	
		905	633	0.76	25×30	ECS2EBB221M□□250030	
	270	737	516	0.88	22×40	ECS2EBB271M□□220040	
		737	516	0.9	25×35	ECS2EBB271M□□250035	
		737	516	0.85	30×25	ECS2EBB271M□□300025	
	330	603	422	1.01	22×45	ECS2EBB331M□□220045	
		603	422	1	30×30	ECS2EBB331M□□300030	
	390	510	357	1.13	22×50	ECS2EBB391M□□220050	
		510	357	1.13	25×40	ECS2EBB391M□□250040	
		510	357	1.15	30×35	ECS2EBB391M□□300035	
	470	424	296	1.29	25×45	ECS2EBB471M□□250045	
		424	296	1.24	35×30	ECS2EBB471M□□350030	
	560	355	249	1.45	25×50	ECS2EBB561M□□250050	
		355	249	1.48	30×40	ECS2EBB561M□□300040	
		355	249	1.49	35×35	ECS2EBB561M□□350035	
	680	293	205	1.71	30×45	ECS2EBB681M□□300045	
		293	205	1.74	35×40	ECS2EBB681M□□350040	
	820	243	170	1.94	30×50	ECS2EBB821M□□300050	
	1000	199	139	2.2	35×45	ECS2EBB102M□□350045	
	315 (365) 2F	68	2927	1610	0.32	22×25	ECS2FBB680M□□220025
		82	2427	1334	0.38	22×30	ECS2FBB820M□□220030
100		1990	1095	0.41	25×25	ECS2FBB101M□□250025	
120		1659	912	0.48	22×35	ECS2FBB121M□□220035	
		1659	912	0.49	25×30	ECS2FBB121M□□250030	
150		1327	730	0.56	22×40	ECS2FBB151M□□220040	
		1327	730	0.51	30×25	ECS2FBB151M□□300025	
180		1106	608	0.63	22×45	ECS2FBB181M□□220045	
		1106	608	0.62	25×35	ECS2FBB181M□□250035	
		1106	608	0.63	30×30	ECS2FBB181M□□300030	
220		905	498	0.72	22×50	ECS2FBB221M□□220050	
		905	498	0.71	25×40	ECS2FBB221M□□250040	
		905	498	0.74	30×35	ECS2FBB221M□□300035	
270		737	406	0.81	25×45	ECS2FBB271M□□250045	
		737	406	0.85	30×40	ECS2FBB271M□□300040	
		737	406	0.82	35×30	ECS2FBB271M□□350030	
330		603	332	0.92	25×50	ECS2FBB331M□□250050	
		693	332	0.9	35×35	ECS2FBB331M□□350035	
390		510	281	1.04	30×45	ECS2FBB391M□□300045	
		510	281	1.05	35×40	ECS2FBB391M□□350040	
470		424	233	1.15	30×50	ECS2FBB471M□□300050	
		424	233	1.18	35×45	ECS2FBB471M□□350045	
560		355	196	1.34	35×50	ECS2FBB561M□□350050	
350 (400) 2V		68	2927	1610	0.34	22×25	ECS2VBB680M□□220025
	82	2427	1334	0.4	22×30	ECS2VBB820M□□220030	
	100	1990	1095	0.47	25×25	ECS2VBB101M□□250025	
	120	1659	912	0.52	22×35	ECS2VBB121M□□220035	
		1659	912	0.53	25×30	ECS2VBB121M□□250030	
	150	1659	912	0.53	30×25	ECS2VBB121M□□300025	
		1327	730	0.59	22×40	ECS2VBB151M□□220040	
	180	1327	730	0.6	25×35	ECS2VBB151M□□250035	
		1106	608	0.68	22×45	ECS2VBB181M□□220045	
		1106	608	0.7	25×40	ECS2VBB181M□□250040	
	220	1106	608	0.71	30×30	ECS2VBB181M□□300030	
		905	498	0.78	22×50	ECS2VBB221M□□220050	
		905	498	0.82	25×45	ECS2VBB221M□□250045	
	270	905	498	0.82	30×35	ECS2VBB221M□□300035	
		737	406	0.94	25×50	ECS2VBB271M□□250050	
		737	406	0.93	30×40	ECS2VBB271M□□300040	
	330	737	406	0.9	35×30	ECS2VBB271M□□350030	
		603	332	1.05	30×45	ECS2VBB331M□□300045	
		603	332	1.01	35×35	ECS2VBB331M□□350035	

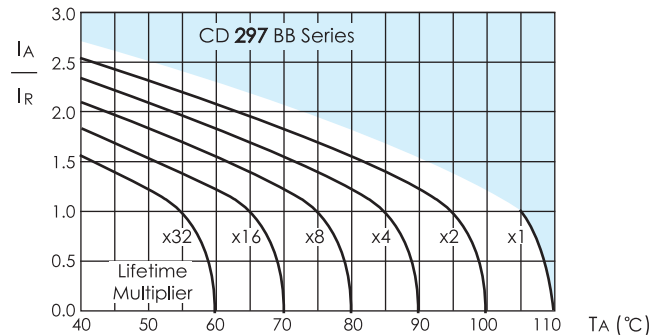
Ratings for CD 297 BB Series

U _r (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
350 (400) 2V	390	6510	281	1.18	30×50	ECS2VBB391M□□300050
	470	510	281	1.13	35×40	ECS2VBB391M□□350040
	470	424	233	1.26	35×45	ECS2VBB471M□□350045
	560	355	196	1.39	35×50	ECS2VBB561M□□350050
400 (450) 2G	68	2927	1522	0.38	22×30	ECS2GBB680M□□220030
	82	2427	1262	0.41	25×25	ECS2GBB820M□□250025
	100	1990	1035	0.46	22×35	ECS2GBB101M□□220035
		1990	1035	0.48	25×30	ECS2GBB101M□□250030
		1990	1035	0.48	30×25	ECS2GBB101M□□300025
	120	1659	863	0.53	22×40	ECS2GBB121M□□220040
		1659	863	0.55	25×35	ECS2GBB121M□□250035
		1659	863	0.56	30×30	ECS2GBB121M□□300030
	150	1327	690	0.63	22×50	ECS2GBB151M□□220050
		1327	690	0.65	25×40	ECS2GBB151M□□250040
		1106	575	0.72	25×45	ECS2GBB181M□□250045
	180	1106	575	0.74	30×35	ECS2GBB181M□□300035
		905	471	0.79	25×50	ECS2GBB221M□□250050
		905	471	0.85	30×40	ECS2GBB221M□□300040
	220	905	471	0.89	35×30	ECS2GBB221M□□350030
		737	383	0.98	30×45	ECS2GBB271M□□300045
		737	383	0.96	35×35	ECS2GBB271M□□350035
	330	603	314	1.12	30×50	ECS2GBB331M□□300050
		603	314	1.12	35×40	ECS2GBB331M□□350040
	390	510	265	1.27	35×45	ECS2GBB391M□□350045
	470	424	220	1.33	35×50	ECS2GBB471M□□350050
450 (500) 2W	68	3903	1951	0.38	22×30	ECS2WBB680M□□220030
	82	3237	1618	0.44	22×35	ECS2WBB820M□□220035
		3237	1618	0.45	25×30	ECS2WBB820M□□250030
		3237	1618	0.46	30×25	ECS2WBB820M□□300025
	100	2654	1327	0.5	22×40	ECS2WBB101M□□220040
		2654	1327	0.52	25×35	ECS2WBB101M□□250035
	120	2212	1106	0.58	22×50	ECS2WBB121M□□220050
		2212	1106	0.58	25×40	ECS2WBB121M□□250040
		2212	1106	0.58	30×30	ECS2WBB121M□□300030
	150	1769	884	0.66	25×45	ECS2WBB151M□□250045
		1769	884	0.68	30×35	ECS2WBB151M□□300035
	180	1474	737	0.74	25×50	ECS2WBB181M□□250050
		1474	737	0.77	30×40	ECS2WBB181M□□300040
		1474	737	0.77	35×30	ECS2WBB181M□□350030
	220	1206	603	0.88	30×45	ECS2WBB221M□□300045
		1206	603	0.88	35×35	ECS2WBB221M□□350035
	270	983	491	0.99	30×50	ECS2WBB271M□□300050
		983	491	1.01	35×40	ECS2WBB271M□□350040
	330	804	402	1.15	35×45	ECS2WBB331M□□350045
	390	681	340	1.28	35×50	ECS2WBB391M□□350050
	470	565	282	1.50	35×55	ECS2WBB471M□□350055
500 (550) 2H	47	5647	2823	0.41	22×30	ECS2HBB470M□□220030
	56	4739	2370	0.47	22×30	ECS2HBB560M□□220030
	68	3903	1951	0.54	22×35	ECS2HBB680M□□220035
		3903	1951	0.54	25×30	ECS2HBB680M□□250030
	82	3237	1618	0.62	22×40	ECS2HBB820M□□220040
		3237	1618	0.62	25×35	ECS2HBB820M□□250035
	100	2654	1327	0.67	22×45	ECS2HBB101M□□220045
		2654	1327	0.67	25×40	ECS2HBB101M□□250040
		2654	1327	0.67	30×30	ECS2HBB101M□□300030
	120	2212	1106	0.77	22×50	ECS2HBB121M□□220050
		2212	1106	0.74	25×40	ECS2HBB121M□□250040
		2212	1106	0.77	30×35	ECS2HBB121M□□300035
		2212	1106	0.80	35×30	ECS2HBB121M□□350030
	150	1769	885	0.82	25×45	ECS2HBB151M□□250045
		1769	885	0.85	30×40	ECS2HBB151M□□300040
		1769	885	0.67	35×30	ECS2HBB151M□□350030
		1769	885	0.85	35×35	ECS2HBB151M□□350035
	180	1474	737	0.98	25×50	ECS2HBB181M□□250050
		1474	737	1.01	30×45	ECS2HBB181M□□300045
	220	1206	603	1.12	30×50	ECS2HBB221M□□300050
		1206	603	0.94	35×35	ECS2HBB221M□□350035
		1206	603	1.12	35×40	ECS2HBB221M□□350040
	270	983	492	1.25	30×50	ECS2HBB271M□□300050
		983	492	1.25	35×40	ECS2HBB271M□□350040
	330	804	402	1.36	35×45	ECS2HBB331M□□350045
	390	681	340	1.54	35×50	ECS2HBB391M□□350050
	470	565	282	1.69	35×60	ECS2HBB471M□□350060

U _r (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
550 (600) 2Y	150	1769	885	0.92	30×40	ECS2YBB151M□□300040
		1474	737	1.03	30×50	ECS2YBB181M□□300050
	180	1474	737	1.03	35×35	ECS2YBB181M□□350035
		1206	603	1.15	30×55	ECS2YBB221M□□300055
	220	1206	603	1.15	35×40	ECS2YBB221M□□350040
		983	492	1.30	35×45	ECS2YBB271M□□350045
	270	983	492	1.30	35×45	ECS2YBB271M□□350045
	330	804	402	1.48	35×50	ECS2YBB331M□□350050
	390	681	340	1.65	35×60	ECS2YBB391M□□350060
	470	565	282	1.92	35×70	ECS2YBB471M□□350070
		473	237	2.05	35×80	ECS2YBB561M□□350080
	560	473	237	2.05	40×70	ECS2YBB561M□□400070

Customer products are available on request.

Lifetime Diagram



I_a = actual ripple current at 120Hz, I_r = rated ripple current at 120Hz, 105°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load