



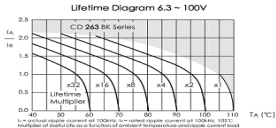
## Ratings for CD263 BK Series

U <sub>s</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size Φ D x L	P/N
(V)	(μF)	(Ω)	(Ω)	(mA Arms)	(mm)	-
6.3 (7.2) 0J	33	8.8	2.5	105	5*11.5	ECR0JBK330M□□050011
	47	6.2	1.5	120	5*11.5	ECR0JBK470M□□050011
	100	2.9	1.2	130	5*11.5	ECR0JBK101M□□050011
	220	1.3	0.87	180	6.3*11.5	ECR0JBK221M□□063011
	330	0.9	0.58	220	6.3*11.5	ECR0JBK331M□□063011
	470	0.6	0.39	315	8*11.5	ECR0JBK471M□□080011
	1000	0.29	0.23	500	10*12.5	ECR0JBK102M□□100012
	2200	0.14	0.095	765	10*20	ECR0JBK222M□□100020
	3300	0.105	0.09	1050	12.5*20	ECR0JBK332M□□125020
	4700	0.079	0.061	1670	16*25	ECR0JBK472M□□160025
	6800	0.062	0.056	1740	16*25	ECR0JBK682M□□160025
	10000	0.053	0.045	2110	16*31.5	ECR0JBK103M□□160031
	15000	0.044	0.036	25800	18*35.5	ECR0JBK153M□□180035
	10 (13) 1A	22	11.5	2.5	92	5*11.5
33		7.6	1.9	105	5*11.5	ECR1ABK330M□□050011
47		5.4	1.5	120	5*11.5	ECR1ABK470M□□050011
100		2.5	1.2	130	5*11.5	ECR1ABK101M□□050011
220		1.1	0.58	220	6.3*11.5	ECR1ABK221M□□063011
330		0.76	0.47	265	8*11.5	ECR1ABK331M□□080011
470		0.54	0.39	315	8*11.5	ECR1ABK471M□□080011
1000		0.25	0.18	615	10*16	ECR1ABK102M□□100016
2200		0.13	0.09	1050	12.5*20	ECR1ABK222M□□125020
3300		0.09	0.068	1300	12.5*25	ECR1ABK332M□□125025
4700		0.07	0.056	1740	16*25	ECR1ABK472M□□160025
6800		0.06	0.045	2110	16*31.5	ECR1ABK682M□□160031
10000		0.05	0.036	2580	18*35.5	ECR1ABK103M□□180035
16 (20) 1C		10	21.2	2.5	92	5*11.5
	22	9.7	1.9	105	5*11.5	ECR1CBK220M□□050011
	33	6.4	1.5	120	5*11.5	ECR1CBK330M□□050011
	47	4.5	1.2	130	5*11.5	ECR1CBK470M□□050011
	100	2.1	0.58	220	6.3*11.5	ECR1CBK101M□□063011
	220	0.97	0.47	290	8*11.5	ECR1CBK221M□□080011
	330	0.64	0.39	315	8*11.5	ECR1CBK331M□□080011
	470	0.45	0.23	500	10*12.5	ECR1CBK471M□□100012
	1000	0.21	0.12	825	10*20	ECR1CBK102M□□100020
	2200	0.11	0.068	1300	12.5*25	ECR1CBK222M□□125025
	3300	0.08	0.056	1740	16*25	ECR1CBK332M□□160025
	4700	0.06	0.045	2110	16*31.5	ECR1CBK472M□□160031
	6800	0.05	0.036	2580	18*35.5	ECR1CBK682M□□180035
	25 (32) 1E	4.7	39.5	3	85	5*11.5
10		18.6	2.5	92	5*11.5	ECR1EBK100M□□050011
22		8.4	1.9	105	5*11.5	ECR1EBK220M□□050011
33		5.6	1.5	120	5*11.5	ECR1EBK330M□□050011
47		4.0	1.2	130	5*11.5	ECR1EBK470M□□050011
100		1.9	0.58	220	6.3*11.5	ECR1EBK101M□□063011
220		0.84	0.39	315	8*11.5	ECR1EBK221M□□080011
330		0.56	0.23	500	10*12.5	ECR1EBK331M□□100025
470		0.40	0.18	615	10*16	ECR1EBK471M□□100016
1000		0.19	0.09	1050	12.5*20	ECR1EBK102M□□125020
2200		0.10	0.056	1740	16*25	ECR1EBK222M□□160025
3300		0.07	0.045	2110	16*31.5	ECR1EBK332M□□160031
4700		0.06	0.036	2580	18*35.5	ECR1EBK472M□□180035

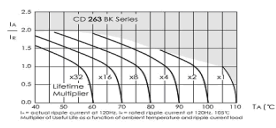
U <sub>s</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size Φ D x L	P/N	
(V)	(μF)	(Ω)	(Ω)	(mA Arms)	(mm)	-	
35 (44) 1V	4.7	33.9	2.5	92	5*11.5	ECR1VBK47M□□050011	
	10	15.9	1.8	105	5*11.5	ECR1VBK100M□□050011	
	22	7.2	1.5	120	5*11.5	ECR1VBK220M□□050011	
	33	4.8	1.5	130	5*11.5	ECR1VBK330M□□050011	
	47	3.4	0.58	220	6.3*11.5	ECR1VBK470M□□063011	
	100	1.6	0.39	315	8*11.5	ECR1VBK101M□□080011	
	220	0.72	0.23	500	10*12.5	ECR1VBK221M□□100012	
	330	0.48	0.18	615	10*16	ECR1VBK331M□□100016	
	470	0.34	0.12	825	10*20	ECR1VBK471M□□100020	
	1000	0.16	0.068	1300	12.5*25	ECR1VBK102M□□125025	
	2200	0.08	0.045	2110	16*31.5	ECR1VBK222M□□160031	
	3300	0.06	0.036	2580	18*35.5	ECR1VBK332M□□180035	
	50 (63) 1H	0.1	1327	18	10	5*11.5	ECR1HBK0R1M□□050011
		0.22	603	13	15	5*11.5	ECR1HBK22M□□050011
0.33		402	10	18	5*11.5	ECR1HBK33M□□050011	
0.47		282	7	23	5*11.5	ECR1HBK47M□□050011	
1		133	4.9	35	5*11.5	ECR1HBK010M□□050011	
2.2		60	4.2	53	5*11.5	ECR1HBK2R2M□□050011	
3.3		40	3.9	65	5*11.5	ECR1HBK3R3M□□050011	
4.7		28	3.6	82	5*11.5	ECR1HBK4R7M□□050011	
10		13	2.7	100	5*11.5	ECR1HBK100M□□050011	
22		6	1.9	125	5*11.5	ECR1HBK220M□□050011	
33		4	1.1	195	6.3*11.5	ECR1HBK330M□□063011	
47		2.8	0.9	245	6.3*11.5	ECR1HBK470M□□063011	
100		1.3	0.5	385	8*11.5	ECR1HBK101M□□080011	
220		0.60	0.27	505	10*16	ECR1HBK221M□□100016	
63 (79) 1J	330	0.40	0.18	675	10*20	ECR1HBK331M□□100020	
	470	0.28	0.12	895	12.5*20	ECR1HBK471M□□125020	
	1000	0.13	0.076	1495	16*25	ECR1HBK102M□□160025	
	2200	0.07	0.05	2190	18*35.5	ECR1HBK222M□□180035	
	4.7	25	5.8	74	5*11.5	ECR1JBK47M□□050011	
	10	12	3.6	95	5*11.5	ECR1JBK100M□□050011	
	22	5	2.1	130	6.3*11.5	ECR1JBK220M□□063011	
	33	4	1.7	160	6.3*11.5	ECR1JBK330M□□063011	
	47	2.5	1.2	305	8*11.5	ECR1JBK470M□□080011	
	100	1.2	0.65	395	10*12.5	ECR1JBK101M□□100012	
	220	0.54	0.32	505	10*20	ECR1JBK221M□□100020	
	330	0.36	0.22	660	12.5*20	ECR1JBK331M□□125020	
	470	0.25	0.16	850	12.5*25	ECR1JBK471M□□125025	
	1000	0.12	0.098	1430	16*31.5	ECR1JBK102M□□160031	
100 (125) 2A	0.47	226	13	30	5*11.5	ECR2ABK47M□□050011	
	1	106	11	45	5*11.5	ECR2ABK010M□□050011	
	2.2	48	9.2	60	5*11.5	ECR2ABK2R2M□□050011	
	3.3	32	7.2	67	5*11.5	ECR2ABK3R3M□□050011	
	4.7	23	6.3	75	5*11.5	ECR2ABK4R7M□□050011	
	10	11	3.3	110	6.3*11.5	ECR2ABK100M□□063011	
	22	5	1.4	165	8*11.5	ECR2ABK220M□□080011	
	33	3.2	0.94	305	10*12.5	ECR2ABK330M□□100012	
	47	2.3	0.68	320	10*16	ECR2ABK470M□□100016	
	100	1.1	0.28	585	12.5*20	ECR2ABK101M□□125020	
	220	0.48	0.16	1120	16*25	ECR2ABK221M□□160025	
	330	0.32	0.13	1290	16*25	ECR2ABK331M□□160025	
	470	0.23	0.11	1350	16*31.5	ECR2ABK471M□□160031	



Lifetime Diagram



Lifetime Diagram 160 - 500V



## Ratings for CD263 BK Series

U <sub>s</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(v)	(μF)	(Ω)	(mArms)	(mm)	-
160 (200) 2C	0.47	423.5	12	6.3*11.5	ECR2CBK47M□□063011
	1	199.0	18	6.3*11.5	ECR2CBK010M□□063011
	2.2	90.5	26	6.3*11.5	ECR2CBK2R2M□□063011
	3.3	60.3	37	8*11.5	ECR2CBK3R3M□□080011
	4.7	42.3	44	8*11.5	ECR2CBK4R7M□□080011
	10	19.9	75	10*12.5	ECR2CBK100M□□100012
	22	9.0	135	10*16	ECR2CBK220M□□100016
	33	6.0	175	10*20	ECR2CBK330M□□100020
	47	4.2	230	12.5*20	ECR2CBK470M□□125020
	100	2.0	330	16*25.5	ECR2CBK101M□□160025
200 (250) 2D	0.47	423.5	12	6.3*11.5	ECR2DBK47M□□063011
	1	199.0	18	6.3*11.5	ECR2DBK010M□□063011
	2.2	90.5	26	6.3*11.5	ECR2DBK2R2M□□063011
	3.3	60.3	37	8*11.5	ECR2DBK3R3M□□080011
	4.7	42.3	50	10*12.5	ECR2DBK4R7M□□100012
	10	19.9	80	10*16	ECR2DBK100M□□100016
	22	9.0	135	10*20	ECR2DBK220M□□100020
	33	6.0	190	12.5*20	ECR2DBK330M□□125020
	100	2.0	360	16*25.5	ECR2DBK101M□□160025
	220	0.9	525	18*31.5	ECR2DBK221M□□180031
250 (300) 2E	0.47	423.5	12	6.3*11.5	ECR2EBK47M□□063011
	1	199.0	18	6.3*11.5	ECR2EBK010M□□063011
	2.2	90.5	30	8*11.5	ECR2EBK2R2M□□080011
	3.3	60.3	43	8*11.5	ECR2EBK3R3M□□080011
	4.7	42.3	50	10*12.5	ECR2EBK4R7M□□100012
	10	19.9	90	10*16	ECR2EBK100M□□100016
	22	9.0	155	12.5*20	ECR2EBK220M□□125020
	33	6.0	190	12.5*25	ECR2EBK330M□□125025
	47	4.2	225	16*25.5	ECR2EBK470M□□160025
	100	2.0	340	16*31.5	ECR2EBK101M□□160031
315 (350) 2F	0.47	564.6	11	6.3*11.5	ECR2FBK47M□□063011
	1	265.4	18	8*11.5	ECR2FBK010M□□080011
	2.2	120.6	30	10*12.5	ECR2FBK2R2M□□100012
	3.3	80.4	36	10*12.5	ECR2FBK3R3M□□100012
	4.7	56.5	47	10*16	ECR2FBK4R7M□□100016
	10	26.5	95	10*20	ECR2FBK100M□□100020
	22	12.1	130	12.5*20	ECR2FBK220M□□125020
	33	8.0	180	12.5*25	ECR2FBK330M□□125025
	47	5.6	330	16*25.5	ECR2FBK470M□□160025
	100	2.7	620	18*31.5	ECR2FBK101M□□180031
350 (400) 2V	0.47	564.6	11	6.3*11.5	ECR2VBK47M□□063011
	1	265.4	18	8*11.5	ECR2VBK010M□□080011
	2.2	120.6	30	10*12.5	ECR2VBK2R2M□□100012
	3.3	80.4	36	10*12.5	ECR2VBK3R3M□□100012
	4.7	56.5	47	10*16	ECR2VBK4R7M□□100016
	10	26.5	95	10*20	ECR2VBK100M□□100020
	22	12.1	130	12.5*20	ECR2VBK220M□□125020
	33	8.0	180	12.5*25	ECR2VBK330M□□125025
	47	5.6	330	16*25.5	ECR2VBK470M□□160025
	100	2.7	620	18*31.5	ECR2VBK101M□□180031
400 (450) 2G	1	265.4	18	8*11.5	ECR2GBK010M□□080011
	2.2	120.6	25	8*11.5	ECR2GBK2R2M□□080011
	3.3	80.4	30	10*12.5	ECR2GBK2R2M□□100012
	3.3	80.4	35	10*12.5	ECR2GBK3R3M□□100012

U <sub>s</sub> (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(v)	(μF)	(Ω)	(mArms)	(mm)	-
420 (470) 2X	1	265.4	16	8*11.5	ECR2XBK010M□□080011
		265.4	19	10*12.5	ECR2XBK010M□□100012
	2.2	120.6	24	8*11.5	ECR2XBK2R2M□□080011
		120.6	29	10*12.5	ECR2XBK2R2M□□100012
	3.3	80.4	34	10*12.5	ECR2XBK3R3M□□100012
		80.4	38	10*16	ECR2XBK3R3M□□100016
	4.7	56.5	46	10*16	ECR2XBK4R7M□□100016
		56.5	52	10*20	ECR2XBK4R7M□□100020
	10	26.5	110	10*20	ECR2XBK100M□□100020
		26.5	116	12.5*20	ECR2XBK100M□□125020
	22	12.1	162	12.5*25	ECR2XBK220M□□125025
		8.0	204	16*20	ECR2XBK330M□□160020
	33	8.0	228	16*25.5	ECR2XBK330M□□160025
		5.6	380	16*31.5	ECR2XBK470M□□160031
	56	4.7	420	16*31.5	ECR2XBK560M□□160031
		4.7	420	18*25.5	ECR2XBK560M□□180025
	68	3.9	542	18*31.5	ECR2XBK680M□□180031
		3.9	542	16*36	ECR2XBK680M□□160036
	82	3.2	608	18*31.5	ECR2XBK820M□□180031
		3.2	608	16*40	ECR2XBK820M□□160040
100	2.7	713	18*36	ECR2XBK101M□□180036	
	2.7	7136	16*45	ECR2XBK101M□□160045	
120	2.2	779	18*40	ECR2XBK121M□□180040	
	2.2	779	16*50	ECR2XBK121M□□160050	
150	1.8	874	20*41	ECR2XBK151M□□200041	
	1.8	874	16*60	ECR2XBK151M□□160060	
450 (500) 2W	1	265.4	16	8*11.5	ECR2WBK010M□□080011
		265.4	19	10*12.5	ECR2WBK010M□□100012
	2.2	120.6	26	10*12.5	ECR2WBK2R2M□□100012
		120.6	29	10*16	ECR2WBK2R2M□□100016
	3.3	80.4	38	10*16	ECR2WBK3R3M□□100016
		80.4	42	10*20	ECR2WBK3R3M□□100020
	4.7	56.5	49	10*16	ECR2WBK4R7M□□100016
		56.5	54	10*20	ECR2WBK4R7M□□100020
	10	26.5	122	10*20	ECR2WBK100M□□100020
		26.5	122	12.5*20	ECR2WBK100M□□125020
	22	12.1	170	12.5*25	ECR2WBK220M□□125025
		8.0	240	16*25.5	ECR2WBK330M□□160025
	47	5.6	400	16*31.5	ECR2WBK470M□□160031
		4.7	440	18*25.5	ECR2WBK560M□□180025
	56	4.7	440	16*31.5	ECR2WBK560M□□160031
		3.9	570	18*31.5	ECR2WBK680M□□180031
	68	3.9	570	16*36	ECR2WBK680M□□160036
		3.2	640	18*31.5	ECR2WBK820M□□180031
	82	3.2	640	18*36	ECR2WBK820M□□180036
		3.2	640	16*40	ECR2WBK820M□□160040
100	2.7	750	18*36	ECR2WBK101M□□180036	
	2.7	750	16*45	ECR2WBK101M□□160045	
120	2.2	820	18*40	ECR2WBK121M□□180040	
	2.2	820	16*50	ECR2WBK121M□□160050	
150	1.8	920	18*46	ECR2WBK151M□□180046	
	1.8	920	20*41	ECR2WBK151M□□200041	
180	1.5	1100	22*41	ECR2WBK181M□□220041	
	1.8	920	16*60	ECR2WBK151M□□160060	
500 (550) 2H	1	265.4	21	10*12.5	ECR2HBK010M□□100012
	2.2	120.6	35	10*16	ECR2HBK2R2M□□100016
	3.3	80.4	48	10*20	ECR2HBK3R3M□□100020

# CD 263 BK Series



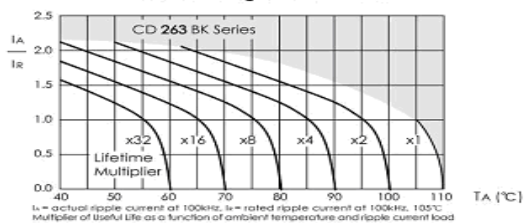
4.7	80.4	40	10*16	ECR2GBK3R3M□□100016
	56.5	47	10*12.5	ECR2GBK4R7M□□100012
10	56.5	52	10*16	ECR2GBK4R7M□□100016
	26.5	80	10*16	ECR2GBK100M□□100016
	26.5	95	10*20	ECR2GBK100M□□100020
22	26.5	120	12.5*20	ECR2GBK100M□□125020
	12.1	150	12.5*25	ECR2GBK220M□□125025
33	8.0	180	12.5*25	ECR2GBK330M□□125025
	8.0	180	16*20	ECR2GBK330M□□160020
	8.0	215	16*25.5	ECR2GBK330M□□160025
47	5.6	360	16*25.5	ECR2GBK470M□□160025
68	3.9	470	18*25.5	ECR2GBK680M□□180025
82	3.2	575	18*31.5	ECR2GBK820M□□180031
100	2.7	675	18*36	ECR2GBK101M□□180036
120	2.2	735	18*40	ECR2GBK121M□□180040
150	1.8	825	20*41	ECR2GBK151M□□20004

4.7	56.5	63	12.5*20	ECR2HBK4R7M□□125020
10	26.5	120	12.5*25	ECR2HBK100M□□125025
22	12.1	180	16*25.5	ECR2HBK220M□□160025
33	8.0	240	16*31.5	ECR2HBK330M□□160031
47	5.6	405	18*31.5	ECR2HBK470M□□180031
56	4.7	450	16*40	ECR2HBK560M□□160040
	4.7	450	18*31.5	ECR2HBK560M□□180031
68	3.9	560	18*36	ECR2HBK680M□□180036
	3.9	560	18*40	ECR2HBK680M□□180040
	3.9	560	16*45	ECR2HBK680M□□160045
82	3.2	640	18*40	ECR2HBK820M□□180040
	3.2	640	16*55	ECR2HBK820M□□160055
100	2.7	800	20*41	ECR2HBK101M□□200041
	2.7	800	18*46	ECR2HBK101M□□180046
	2.7	800	16*60	ECR2HBK101M□□160060
120	2.2	840	22*45	ECR2HBK121M□□220045
150	1.8	890	22*45	ECR2HBK151M□□220045

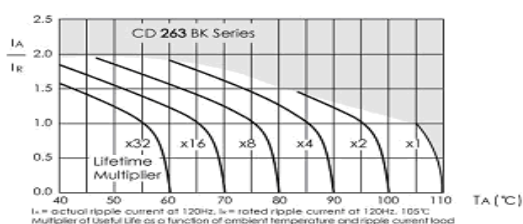
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## Lifetime Diagram

Lifetime Diagram 6.3 ~ 100V



Lifetime Diagram 160 ~ 500V



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[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)