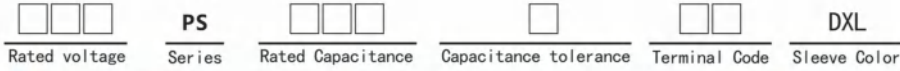


2000h at 105°C

- Standard 105°C



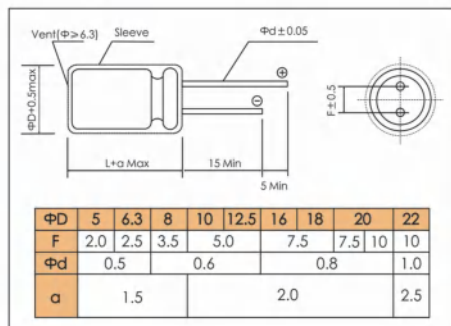
Items	Characteristics																																																												
Operating Temperature Range (°C)	-40 ~ +105	-25 ~ +105																																																											
Voltage Range (V)	6.3 ~ 250	315 ~ 500																																																											
Capacitance Range (μF)	0.1 ~ 15000																																																												
Capacitance Tolerance (20°C, 120Hz)	± 20%																																																												
Leakage Current (μA)	6.3 ~ 100V	160 ~ 500V																																																											
	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 3, whichever is greater.	After 1 minute at 20°C application of rated voltage, leakage current is not more than: CV ≤ 1000 : 0.1CV + 40 CV > 1000 : 0.04CV + 100																																																											
C: Nominal Capacitance (μF) V: Rated Voltage (V)																																																													
Dissipation Factor (20°C, 120Hz)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage (V)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>63</th><th>100</th><th>160</th><th>200</th><th>250</th><th>315</th><th>350</th><th>400</th><th>420</th><th>450</th><th>500</th> </tr> <tr> <th>Tan δ (max)</th> <td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td><td colspan="4">0.15</td><td colspan="4">0.20</td> </tr> </table>												Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	315	350	400	420	450	500	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15				0.20																	
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	315	350	400	420	450	500																																											
Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15				0.20																																																
When nominal capacitance is over 1000μF tan δ shall be added 0.02 to the listed value with increase of every 1000μF																																																													
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage (V)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>63</th><th>100</th><th>160</th><th>200</th><th>250</th><th>315</th><th>350</th><th>400</th><th>420</th><th>450</th><th>500</th> </tr> <tr> <th>Z_{-25°C} / Z_{+20°C}</th> <td>4</td><td>3</td><td colspan="4">2</td><td colspan="4">3</td><td colspan="4">6</td> </tr> <tr> <th>Z_{-40°C} / Z_{+20°C}</th> <td>8</td><td>6</td><td>4</td><td colspan="4">3</td><td colspan="4">8</td><td colspan="4">-</td> </tr> </table>												Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	315	350	400	420	450	500	Z _{-25°C} / Z _{+20°C}	4	3	2				3				6				Z _{-40°C} / Z _{+20°C}	8	6	4	3				8				-			
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	315	350	400	420	450	500																																											
	Z _{-25°C} / Z _{+20°C}	4	3	2				3				6																																																	
Z _{-40°C} / Z _{+20°C}	8	6	4	3				8				-																																																	

MINIATURE

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	3000h	>100000h	2000h	2000h	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 150% 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 1.4 x I _r 40°C	U _r I _r 105°C	U _r I _r = 0 105°C	After test: U _r to be applied for 30min I _r = 0 >24h before measurement

Dimensions

mm



Frequency Coefficient

Rated Voltage (V)	Frequency Cap (μF)	Frequency					
		50/60Hz	120Hz	1kHz	10kHz	50kHz	100kHz
6.3 ~ 100	0.1 ~ 4.7	0.32	0.4	0.7	0.8	0.92	1.0
	10 ~ 47	0.40	0.5	0.8	0.9	0.96	1.0
	100 ~ 220	0.56	0.7	0.9	0.9	0.96	1.0
	330 ~ 1000	0.64	0.8	0.9	1.0	1.0	1.0
	2200 ~ 15000	0.72	0.9	1.0	1.0	1.0	1.0
160 ~ 500	0.47 ~ 10	0.80	1.0	1.75	2.0	2.4	2.5
	22 ~ 56	0.80	1.0	1.6	1.8	1.9	2.0
	68 ~ 220	0.80	1.0	1.3	1.4	1.6	1.65

Temperature Coefficient

Rated Voltage(V)	Temperature(°C)		
	+70	+85	+105
6.3 ~ 100	2.0	1.7	1.0
160 ~ 500	1.8	1.4	1.0

PS CD263



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

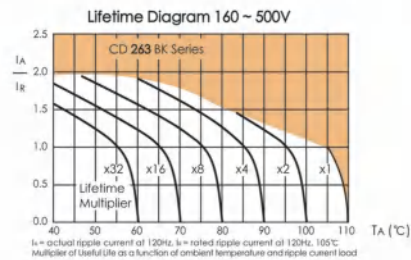
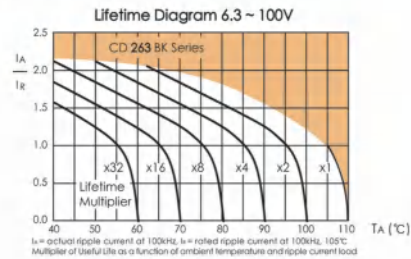
Ratings for CD 263 Series

MINIATURE

U _s (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size ΦD x L
(V)	(μF)	(Ω)	(Ω)	(mA _{rms})	(mm)
6.3 (7.2) 0J	33	8.8	2.5	105	5×11.5
	47	6.2	1.5	120	5×11.5
	100	2.9	1.2	130	5×11.5
	220	1.3	0.87	180	6.3×11.5
	330	0.9	0.58	220	6.3×11.5
	470	0.6	0.39	315	8×11.5
	1000	0.29	0.23	500	10×12.5
	2200	0.14	0.095	1000	12.5×20
	3300	0.105	0.09	1050	12.5×20
	4700	0.079	0.061	1670	16×25
	6800	0.062	0.056	1740	16×25
	10000	0.053	0.045	2110	16×31.5
	15000	0.044	0.036	2580	18×35.5
	22	11.5	2.5	92	5×11.5
10 (13) 1A	33	7.6	1.9	105	5×11.5
	47	5.4	1.5	120	5×11.5
	100	2.5	1.2	130	5×11.5
	220	1.1	0.58	220	6.3×11.5
	330	0.76	0.47	265	8×11.5
	470	0.54	0.39	315	8×11.5
	1000	0.25	0.18	615	10×16
	2200	0.13	0.09	1050	12.5×20
	3300	0.09	0.068	1300	12.5×25
	4700	0.07	0.056	1740	16×25
16 (20) 1C	6800	0.06	0.045	2110	16×31.5
	10000	0.05	0.036	2580	18×35.5
	10	21.2	2.5	92	5×11.5
	22	9.7	1.9	105	5×11.5
	33	6.4	1.5	120	5×11.5
	47	4.5	1.2	130	5×11.5
	100	2.1	0.58	220	6.3×11.5
	220	0.97	0.47	290	8×11.5
	330	0.64	0.39	315	8×11.5
	470	0.45	0.23	500	10×12.5
25 (32) 1E	1000	0.21	0.12	825	10×20
	2200	0.11	0.068	1300	12.5×25
	3300	0.08	0.056	1740	16×25
	4700	0.06	0.045	2110	16×31.5
	6800	0.05	0.036	2580	18×35.5
	4.7	39.5	3	85	5×11.5
	10	18.6	2.5	92	5×11.5
	22	8.4	1.9	105	5×11.5
	33	5.6	1.5	120	5×11.5
	47	4.0	1.2	130	5×11.5
35 (44) 1V	100	1.9	0.58	220	6.3×11.5
	220	0.84	0.39	315	8×11.5
	330	0.56	0.23	500	10×12.5
	470	0.40	0.18	615	10×16
	1000	0.19	0.09	1050	12.5×20
	2200	0.10	0.056	1740	16×25
	3300	0.07	0.045	2110	16×31.5
	4700	0.06	0.036	2580	18×35.5
	4.7	33.9	2.5	92	5×11.5
	10	15.9	1.8	105	5×11.5
50 (63) 1H	22	7.2	1.5	120	5×11.5
	33	4.8	1.5	130	5×11.5
	47	3.4	0.58	220	6.3×11.5
	100	1.6	0.39	315	8×11.5
	220	0.72	0.23	500	10×12.5
	330	0.48	0.18	615	10×16
	470	0.34	0.12	825	10×20
	1000	0.16	0.068	1300	12.5×25
	2200	0.08	0.045	2110	16×31.5
	3300	0.06	0.036	2580	18×35.5
63 (79) 1J	4.7	25	5.8	74	5×11.5
	10	12	3.6	95	5×11.5
	22	5	2.1	130	6.3×11.5
	33	4	1.7	160	6.3×11.5
	47	2.5	1.2	305	8×11.5
	100	1.2	0.65	395	10×12.5
	220	0.54	0.32	505	10×20
	330	0.36	0.22	660	12.5×20
	470	0.25	0.16	850	12.5×25
	1000	0.12	0.098	1430	16×31.5
100 (125) 2A	0.47	226	13	30	5×11.5
	1	106	11	45	5×11.5
	2.2	48	9.2	60	5×11.5
	3.3	32	7.2	67	5×11.5
	4.7	23	6.3	75	5×11.5
	10	11	3.3	110	6.3×11.5
	22	5	1.4	165	8×11.5
	33	3.2	0.94	305	10×12.5
	47	2.3	0.68	320	10×16
	100	1.1	0.28	585	12.5×20
50 (63) 1H	220	0.48	0.16	1120	16×25
	330	0.32	0.13	1290	16×25
	470	0.23	0.11	1350	16×31.5

U _s (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size ΦD x L	
(V)	(μF)	(Ω)	(Ω)	(mA _{rms})	(mm)	
6.3 (7.2) 0J	0.1	1327	18	10	5×11.5	
	0.22	603	13	15	5×11.5	
	0.33	402	10	18	5×11.5	
	0.47	282	7	23	5×11.5	
	1	133	4.9	35	5×11.5	
	2.2	60	4.2	53	5×11.5	
	3.3	40	3.9	65	5×11.5	
	4.7	28	3.6	82	5×11.5	
	10	13	2.7	100	5×11.5	
	22	6	1.9	125	5×11.5	
	33	4	1.1	195	6.3×11.5	
	47	2.8	0.9	245	6.3×11.5	
	100	1.3	0.5	385	8×11.5	
	220	0.60	0.27	505	10×16	
10 (13) 1A	330	0.40	0.18	675	10×20	
	470	0.28	0.12	895	12.5×20	
	1000	0.13	0.076	1495	16×25	
	2200	0.07	0.05	2190	18×35.5	
	16 (20) 1C	4.7	25	5.8	74	5×11.5
		10	12	3.6	95	5×11.5
		22	5	2.1	130	6.3×11.5
		33	4	1.7	160	6.3×11.5
		47	2.5	1.2	305	8×11.5
		100	1.2	0.65	395	10×12.5
220		0.54	0.32	505	10×20	
330		0.36	0.22	660	12.5×20	
470		0.25	0.16	850	12.5×25	
1000		0.12	0.098	1430	16×31.5	
25 (32) 1E	0.47	226	13	30	5×11.5	
	1	106	11	45	5×11.5	
	2.2	48	9.2	60	5×11.5	
	3.3	32	7.2	67	5×11.5	
	4.7	23	6.3	75	5×11.5	
	10	11	3.3	110	6.3×11.5	
	22	5	1.4	165	8×11.5	
	33	3.2	0.94	305	10×12.5	
	47	2.3	0.68	320	10×16	
	100	1.1	0.28	585	12.5×20	
35 (44) 1V	220	0.48	0.16	1120	16×25	
	330	0.32	0.13	1290	16×25	
	470	0.23	0.11	1350	16×31.5	

Lifetime Diagram



Ratings for CD 263 Series

U _r (Surge Voltage) Code	Rated Capa- citan- ce	Max ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L
(V)	(μF)	(Ω)	(mA _{rms})	(mm)
160 (200) 2C	0.47	423.5	12	6.3×11.5
	1	199.0	18	6.3×11.5
	2.2	90.5	26	6.3×11.5
	3.3	60.3	37	8×11.5
	4.7	42.3	44	8×11.5
	10	19.9	75	10×12.5
	22	9.0	135	10×16
	33	6.0	175	10×20
	47	4.2	230	12.5×20
	100	2.0	330	16×25.5
	220	0.9	500	16×35.5
	0.47	423.5	12	6.3×11.5
1	199.0	18	6.3×11.5	
2.2	90.5	26	6.3×11.5	
3.3	60.3	37	8×11.5	
4.7	42.3	50	10×12.5	
10	19.9	80	10×16	
22	9.0	135	10×20	
33	6.0	190	12.5×20	
47	4.0	230	12.5×25	
100	2.0	360	16×25.5	
220	0.9	525	18×31.5	
0.47	423.5	12	6.3×11.5	
1	199.0	18	6.3×11.5	
2.2	90.5	30	8×11.5	
3.3	60.3	43	8×11.5	
4.7	42.3	50	10×12.5	
10	19.9	90	10×16	
22	9.0	155	12.5×20	
33	6.0	190	12.5×25	
47	4.2	225	16×25.5	
100	2.0	340	16×31.5	
150	1.3	405	18×25.5	
220	0.9	570	18×36	
0.47	564.6	11	6.3×11.5	
1	265.4	18	8×11.5	
2.2	120.6	30	10×12.5	
3.3	80.4	36	10×12.5	
4.7	56.5	47	10×16	
10	26.5	95	10×20	
22	12.1	130	12.5×20	
33	8.0	180	12.5×25	
47	5.6	330	16×25.5	
100	2.7	620	18×31.5	
0.47	564.6	11	6.3×11.5	
1	265.4	18	8×11.5	
2.2	120.6	30	10×12.5	
3.3	80.4	36	10×12.5	
4.7	56.5	47	10×16	
10	26.5	95	10×20	
22	12.1	130	12.5×20	
33	8.0	180	12.5×25	
47	5.6	330	16×25.5	
100	2.7	620	18×31.5	
1	265.4	18	8×11.5	
2.2	120.6	30	10×12.5	
3.3	80.4	40	10×16	
4.7	56.5	52	10×20	
10	26.5	110	12.5×20	
22	12.1	150	12.5×25	
33	8.0	215	16×25.5	
47	5.6	360	16×25.5	
68	3.9	470	18×25.5	
82	3.2	575	18×31.5	
100	2.7	675	18×36	
120	2.2	735	18×40	
150	1.8	825	20×41	
1	265.4	19	10×12.5	
2.2	120.6	29	10×16	
3.3	80.4	42	10×20	
4.7	56.5	54	10×20	
10	26.5	122	10×20	
22	26.5	122	12.5×20	
22	12.1	170	12.5×25	
33	8.0	240	16×25.5	
47	5.6	400	16×31.5	
68	3.9	570	18×31.5	
82	3.2	640	18×31.5	
82	3.2	640	18×36	
100	2.7	750	18×36	
120	2.2	820	18×40	
150	1.8	920	18×46	

U _r (Surge Voltage) Code	Rated Capa- citan- ce	Max ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L
(V)	(μF)	(Ω)	(mA _{rms})	(mm)
450 (500) 2W	150	1.8	920	20×41
	180	1.5	1100	22×41
	220	1.2	1200	22×45
	1	265.4	21	10×12.5
500 (550) 2H	2.2	120.6	35	10×16
	3.3	80.4	48	10×20
	4.7	56.5	63	12.5×20
	10	26.5	120	12.5×25
	22	12.1	180	16×25.5
	33	8.0	240	16×31.5
	47	5.6	405	18×31.5
	68	3.9	560	18×36
		3.9	560	18×40
	82	3.2	610	18×36
		3.2	640	18×40
	100	2.7	800	20×41
		2.7	800	18×46
	120	2.2	840	22×45
	150	1.8	890	22×45

MINIATURE