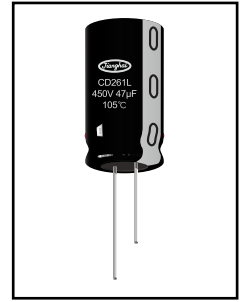
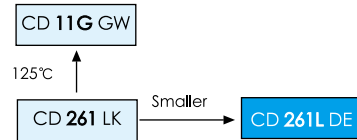


10000-12000h at 105°C

- Rated voltage Range: 160V~450V; High Reliability
- Downsized and larger capacitance from current CD261 series
- For Electronic Lighting Ballast, LED Lighting applications

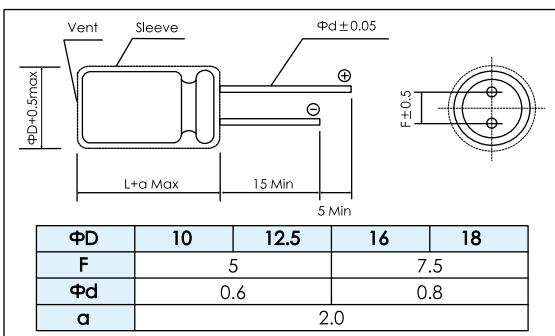


Items	Characteristics																								
Operating Temperature Range (°C)	-40 ~ +105																								
Voltage Range (V)	160 ~ 450																								
Capacitance Range (μF)	10 ~ 820																								
Capacitance Tolerance (20°C, 120Hz)	± 20%																								
Leakage Current (μA)	After 1 minute at 20°C application of rated voltage, leakage current is not more than 0.04CV+100. C: Nominal Capacitance (μF) V: Rated Voltage (V)																								
Dissipation Factor (20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td colspan="3">0.15</td> <td colspan="4">0.20</td> </tr> </tbody> </table>	Rated Voltage (V)	160	200	250	350	400	420	450	Tan δ (max)	0.15			0.20											
	Rated Voltage (V)	160	200	250	350	400	420	450																	
Tan δ (max)	0.15			0.20																					
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z_{-25°C} / Z_{+20°C}</td> <td colspan="2">3</td> <td>4</td> <td colspan="3">6</td> <td></td> </tr> <tr> <td>Z_{-40°C} / Z_{+20°C}</td> <td colspan="3">6</td> <td colspan="4">8</td> </tr> </tbody> </table>	Rated Voltage (V)	160	200	250	350	400	420	450	Z _{-25°C} / Z _{+20°C}	3		4	6				Z _{-40°C} / Z _{+20°C}	6			8			
Rated Voltage (V)	160	200	250	350	400	420	450																		
Z _{-25°C} / Z _{+20°C}	3		4	6																					
Z _{-40°C} / Z _{+20°C}	6			8																					

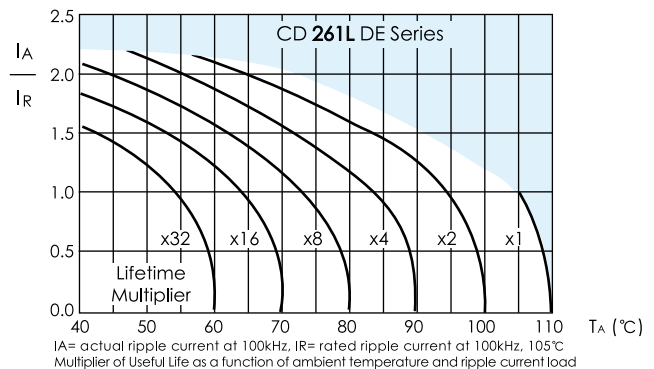
	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	L ≤ 20.5 : 12000h L ≥ 25 : 14000h	≥ 100000h	L ≤ 20.5 : 10000h L ≥ 25 : 12000h	L ≤ 20.5 : 10000h L ≥ 25 : 12000h	1000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 50% of initial value		Within ± 30% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 500% of specified value		Not more than 300% 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 1.4 x I _R 60°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



Lifetime Diagram



Frequency Coefficient

Frequency Cap (μF)	50/60Hz	120Hz	500Hz	1kHz	10kHz	100kHz
10~82	0.32	0.40	0.52	0.60	0.84	1.00
100~220	0.36	0.44	0.58	0.67	0.93	1.00
270~820	0.40	0.50	0.65	0.75	0.95	1.00

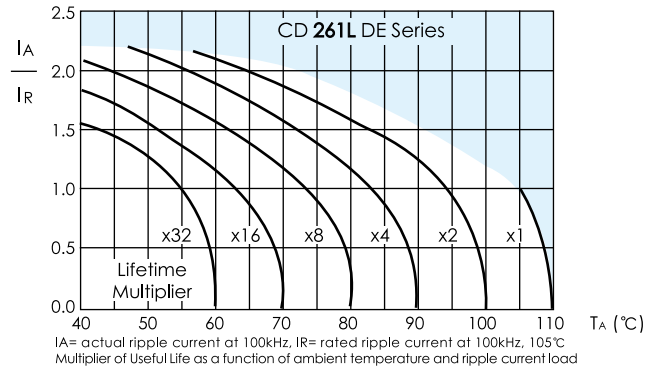
Temperature Coefficient

Temperature(°C)	+65	+85	+105
Coefficient	2.1	1.7	1.0

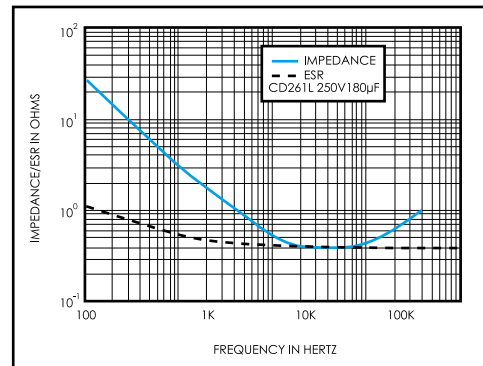
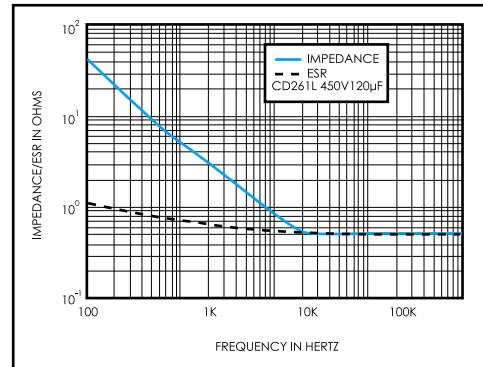
Ratings for CD 261L DE Series

U_R (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 100kHz	Size $\Phi D \times L$	P/N	
(V)	(μF)	(Ω)	(Ω)	(mA _{rms})	(mm)	-	
420 (470) 2X	82	3.23	0.97	1725	12.5 × 50	ECR2 × DE820M □ □ 125050	
		3.23	0.97	1600	16 × 31.5	ECR2 × DE820M □ □ 160031	
		3.23	0.97	1725	16 × 36	ECR2 × DE820M □ □ 160036	
		3.23	0.97	1600	18 × 25.5	ECR2 × DE820M □ □ 180025	
		3.23	0.97	1825	18 × 31.5	ECR2 × DE820M □ □ 180031	
	100	2.65	0.80	1800	16 × 40	ECR2 × DE101M □ □ 160040	
		2.65	0.80	1755	18 × 31.5	ECR2 × DE101M □ □ 180031	
		2.65	0.80	1879	18 × 36	ECR2 × DE101M □ □ 180036	
		2.21	0.66	2070	16 × 45	ECR2 × DE121M □ □ 160045	
		2.21	0.66	1913	18 × 36	ECR2 × DE121M □ □ 180036	
		2.21	0.66	2093	18 × 40	ECR2 × DE121M □ □ 180040	
	150	1.77	0.53	2115	16 × 50	ECR2 × DE151M □ □ 160050	
		1.77	0.53	2385	18 × 45	ECR2 × DE151M □ □ 180045	
		1.47	0.44	2475	18 × 50	ECR2 × DE181M □ □ 180050	
	450 (500) 2W	10	26.53	7.96	325	10 × 16	ECR2WDE100M □ □ 100016
			17.68	5.31	475	10 × 20	ECR2WDE150M □ □ 100020
		15	17.68	5.31	525	10 × 25	ECR2WDE150M □ □ 100025
			14.74	4.42	575	10 × 25	ECR2WDE180M □ □ 100025
		22	12.06	3.62	675	10 × 30	ECR2WDE220M □ □ 100030
			12.06	3.62	700	12.5 × 20	ECR2WDE220M □ □ 125020
27		9.82	2.95	800	10 × 35	ECR2WDE270M □ □ 100035	
		9.82	2.95	850	12.5 × 25	ECR2WDE270M □ □ 125025	
33		8.04	2.41	900	10 × 40	ECR2WDE330M □ □ 100040	
		8.04	2.41	900	16 × 20	ECR2WDE330M □ □ 160020	
		8.04	2.41	1000	12.5 × 30	ECR2WDE330M □ □ 125030	
39		6.80	2.04	1025	10 × 50	ECR2WDE390M □ □ 100050	
		6.80	2.04	1075	12.5 × 30	ECR2WDE390M □ □ 125030	
		6.80	2.04	1150	12.5 × 35	ECR2WDE390M □ □ 125035	
		6.80	2.04	1000	16 × 25.5	ECR2WDE390M □ □ 160025	
47		5.64	1.69	1200	12.5 × 35	ECR2WDE470M □ □ 125035	
		5.64	1.69	1313	12.5 × 40	ECR2WDE470M □ □ 125040	
		5.64	1.69	1250	16 × 25.5	ECR2WDE470M □ □ 160025	
		5.64	1.69	1150	18 × 20.5	ECR2WDE470M □ □ 180020	
56		4.74	1.42	1350	12.5 × 40	ECR2WDE560M □ □ 125040	
		4.74	1.42	1475	12.5 × 45	ECR2WDE560M □ □ 125045	
		4.74	1.42	1463	16 × 31.5	ECR2WDE560M □ □ 160031	
		4.74	1.42	1400	18 × 25.5	ECR2WDE560M □ □ 180025	
68		3.90	1.17	1675	12.5 × 50	ECR2WDE680M □ □ 125050	
		3.90	1.17	1525	16 × 31.5	ECR2WDE680M □ □ 160031	
		3.90	1.17	1650	16 × 36	ECR2WDE680M □ □ 160036	
		3.90	1.17	1525	18 × 25.5	ECR2WDE8680M □ □ 180025	
82		3.23	0.97	1875	16 × 40	ECR2WDE820M □ □ 160040	
	3.23	0.97	1825	18 × 31.5	ECR2WDE820M □ □ 180031		
100	2.65	0.80	1890	16 × 45	ECR2WDE101M □ □ 160045		
	2.65	0.80	1879	18 × 36	ECR2WDE101M □ □ 180036		
120	2.21	0.66	2093	18 × 40	ECR2WDE121M □ □ 180040		
	2.21	0.66	2126	18 × 45	ECR2WDE121M □ □ 180045		
150	1.77	0.53	2385	18 × 50	ECR2WDE151M □ □ 180050		

Lifetime Diagram



Typical Curves



Customer products are available on request.