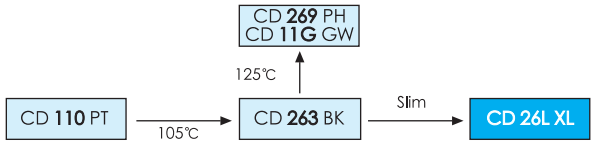
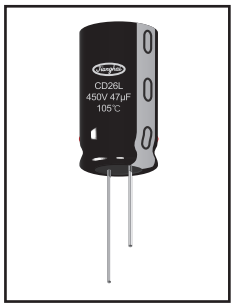
CD 26L XL SERIES

2000h at 105℃

- Slim Type
- High ripple current





Items	Characteristics
Operating Temperature Range (℃)	-25 ~ +105
Voltage Range (V)	200 ~ 500
Capacitance Range (μF)	18 ~ 220
Capacitance Tolerance (20℃, 120Hz)	± 20%
Leakage Current (μA)	After 1 minute at 20℃ application of rated voltage, leakage current is not more than 0.02CV. C: Nominal Capacitance (μF) V: Rated Voltage (V)

Dissipation Factor (20℃, 120Hz)

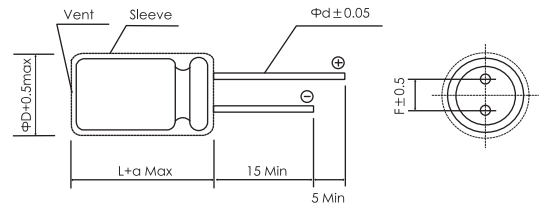
Rated Voltage (V)	200	250	400	420	450	500
Tan δ (max)	0.12	0.15	0.20			

Stability at Low Temperature (Impedance Ratio at 120Hz)

Rated Voltage (V)	200 ~ 250	400 ~ 500
$Z_{-25℃} / Z_{+20℃}$	3	8

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h	⩾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 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U_R I_R 105℃	U_R 1.2 x I_R 40℃	U_R I_R 105℃	U_R I_R = 0 105℃	U_R = 0 I_R = 0 105℃ After test: U_R to be applied for 30min >24h before measurement

Dimensions mm

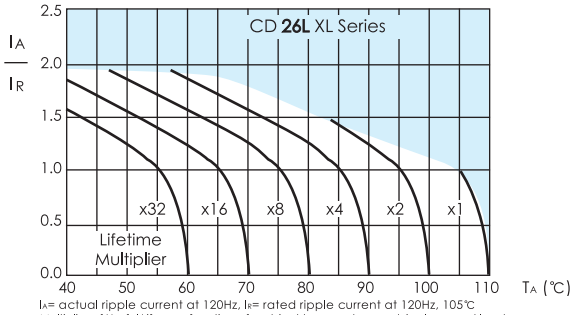


ΦD	8	10	12.5
F	3.5	5.0	5.0
Φd	0.5	0.6	
a	2.0		

Frequency Coefficient

Frequency(Hz)		50/60	120	500	1K	⩾10K
Coefficient	200 ~ 250V	0.8	1.0	1.20	1.30	1.40
	400 ~ 500V	0.8	1.0	1.25	1.40	1.50

Lifetime Diagram



IA= actual ripple current at 120Hz, IR= rated ripple current at 120Hz, 105℃
Multiplier of Useful Life as a function of ambient temperature and ripple current load

Temperature Coefficient

Temperature(℃)	+70	+85	+105
Coefficient	1.8	1.4	1.0

MINIATURE

Ratings for CD **26L** XL Series

U_R (Surge Voltage) Code	Rated Capacitance	Max ESR 20℃,120Hz	Typ ESR 20℃,120Hz	Rated Ripple Current 105℃,120Hz	Size ΦD x L	P/N
(V)	(μF)	(Ω)	(Ω)	(mArms)	(mm)	-
200 (250) 2D	82	1.9	1.2	400	10×30	ECR2DXL820M□□100030
	100	1.6	1	460	10×36	ECR2DXL101M□□100036
	120	1.3	0.8	530	10×40	ECR2DXL121M□□100040
	150	1.1	0.6	620	12.5×30	ECR2DXL151M□□125030
	180	0.9	0.5	700	12.5×36	ECR2DXL181M□□125036
	220	0.7	0.4	800	12.5×40	ECR2DXL221M□□125040
250 (300) 2E	47	4.2	2.5	295	8×50	ECR2EXL470M□□080050
	68	2.9	1.8	330	10×36	ECR2EXL680M□□100036
	82	2.4	1.5	420	10×40	ECR2EXL820M□□100040
	100	2	1.2	480	10×50	ECR2EXL101M□□100050
	120	1.7	1	560	12.5×36	ECR2EXL121M□□125036
		1.7	1	630	10×60	ECR2EXL121M□□100060
	150	1.3	0.8	650	12.5×40	ECR2EXL151M□□125040
400 (450) 2G	27	9.8	4.4	240	10×30	ECR2GXL270M□□100030
	33	8.0	3.6	280	10×36	ECR2GXL330M□□100036
	39	6.8	3.1	320	10×40	ECR2GXL390M□□100040
	47	5.6	2.5	370	12.5×30	ECR2GXL470M□□125030
		5.6	2.5	370	10×50	ECR2GXL470M□□100050
	56	4.7	2.1	420	12.5×36	ECR2GXL560M□□125036
	68	3.9	1.8	480	12.5×45	ECR2GXL680M□□125045
	82	3.2	1.5	520	12.5×50	ECR2GXL820M□□125050
	100	2.7	1.2	580	12.5×50	ECR2GXL101M□□125050
420 (470) 2X	22	12	7.2	200	10×30	ECR2XXL220M□□100030
	27	9.8	5.9	230	10×36	ECR2XXL270M□□100036
	33	8	4.8	270	10×40	ECR2XXL330M□□100040
	39	6.8	4.1	310	12.5×30	ECR2XXL390M□□125030
	47	5.6	3.4	360	12.5×36	ECR2XXL470M□□125036
		5.6	3.4	360	10×50	ECR2XXL470M□□100050
	56	4.7	2.8	430	12.5×40	ECR2XXL560M□□125040
	68	3.9	2.3	490	12.5×45	ECR2XXL680M□□125045
	82	3.2	1.9	550	12.5×50	ECR2XXL820M□□125050
450 (500) 2W	18	14.7	8.8	180	8×50	ECR2WXL180M□□080050
	21	12.6	7.5	210	8×50	ECR2WXL210M□□080050
	27	9.8	5.9	250	10×40	ECR2WXL270M□□100040
	33	8.0	4.8	280	12.5×30	ECR2WXL330M□□125030
	39	6.8	4.1	320	12.5×36	ECR2WXL390M□□125036
		6.8	4.1	320	10×50	ECR2WXL390M□□100050
	47	5.7	3.4	380	12.5×40	ECR2WXL470M□□125040
		5.7	3.4	380	10×50	ECR2WXL470M□□100050
	53	5.0	3.0	410	10×50	ECR2WXL530M□□100050
	56	4.7	2.8	440	12.5×50	ECR2WXL560M□□125050
		4.7	2.8	440	10×60	ECR2WXL560M□□100060
	60	4.4	2.6	470	10×60	ECR2WXL600M□□100060
	68	3.9	2.3	550	12.5×50	ECR2WXL680M□□125050
	82	3.2	1.9	667	12.5×50	ECR2WXL820M□□125050
	100	2.7	1.6	800	12.5×61	ECR2WXL101M□□125061
500 (550) 2H	47	5.7	3.4	400	12.5×50	ECR2HXL470M□□125050
	53	5	3.0	420	12.5×61	ECR2HXL530M□□125061
	56	4.7	2.8	450	12.5×61	ECR2HXL560M□□125061

Customer products are available on request.