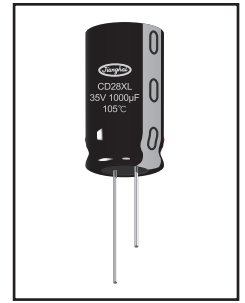


CD 28XL KL SERIES



10000h at 105°C

- Miniaturized Long Life
- Suited for LED Lighting



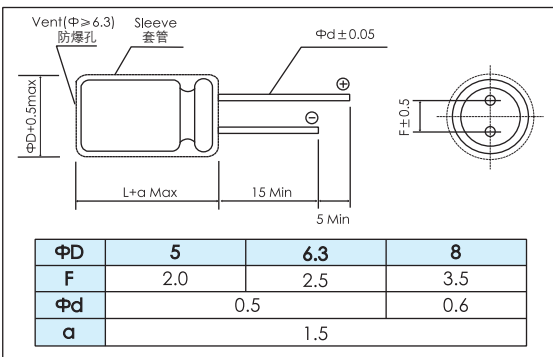
Items	Characteristics							
Operating Temperature Range (°C)	-55 ~ 105							
Rated Voltage Range (V)	10 ~ 100							
Capacitance Range (μF)	0.47 ~ 330							
Capacitance Tolerance (20°C, 120Hz)	± 20%							
Leakage Current (μA)	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 3uA, whichever is greater. C: Nominal Capacitance(μF) V: Rated Voltage(V)							
Dissipation Factor (20°C, 120Hz)	WV (V)	10	16	25	35	50	63	100
	Tan δ (max)	0.19	0.16	0.14	0.12	0.10	0.09	0.08
Characteristics of Low Temperature (120Hz)	Rated Voltage (V)	10	16	25	35	50	63	100
	Z _{-25°C} /Z _{+20°C}	3	2	2	2	2	2	2
	Z _{-40°C} /Z _{+20°C}	6	4	3	3	3	3	3

	Useful Life		Load Life	Endurance Life	Shelf Life
Lifetime	12000h	≥ 110000h	10000h	10000h	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 ± 25% of initial value	Within ± 25% of initial value	Within ± 20% of initial value
Dissipation Factor	No more than 300% of specified value		Not more than 300% of specified value	Not more than 300% 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 × I _R 60°C	U _R I _R 105°C	U _R I _R = 0 105°C	No voltage applied After test: U _R to be applied for 30min, 24 to 48h before measurement

Dimensions

mm

Frequency Coefficient



Cap (μF)	Freq(Hz)			
	120	1k	10k	100k
0.47~10	0.42	0.60	0.80	1.00
22~33	0.55	0.75	0.90	1.00
47~330	0.70	0.85	0.95	1.00

Temperature Coefficient

Temperature(°C)	+70	+85	+105
Coefficient	1.96	1.68	1.00

Ratings for CD 28XL KL Series

U_r (Surge Voltage) Code	Rated Capacitance 20°C, 120Hz	Rated Ripple Current 105°C, 100KHz	Size $\Phi D \times L$	P/N
(V)	(μF)	(mA _{rms})	(mm)	-
10 (13) 1A	100	130	5×11.5	ECR1AKL101M□□050011
	220	210	6.3×11.5	ECR1AKL221M□□063011
	330	330	8×11.5	ECR1AKL331M□□080011
16 (20) 1C	47	130	5×11.5	ECR1CKL101M□□050011
	100	210	6.3×11.5	ECR1CKL221M□□063011
	220	330	8×11.5	ECR1CKL331M□□080011
25 (32) 1E	33	130	5×11.5	ECR1EKL330M□□050011
	47	130	5×11.5	ECR1EKL470M□□050011
	100	210	6.3×11.5	ECR1EKL101M□□063011
35 (44) 1V	33	130	5×11.5	ECR1VKL330M□□050011
	47	210	6.3×11.5	ECR1VKL470M□□063011
	100	330	8×11.5	ECR1VKL101M□□080011
50 (63) 1H	0.47	12	5×11.5	ECR1HKL47M□□050011
	1	25	5×11.5	ECR1HKL010M□□050011
	2.2	35	5×11.5	ECR1HKL2R2M□□050011
	3.3	70	5×11.5	ECR1HKL3R3M□□050011
	4.7	80	5×11.5	ECR1HKL4R7M□□050011
	10	90	5×11.5	ECR1HKL100M□□050011
	22	110	5×11.5	ECR1HKL220M□□050011
	33	190	6.3×11.5	ECR1HKL330M□□063011
	47	190	6.3×11.5	ECR1HKL470M□□063011
100	270	8×11.5	ECR1HKL101M□□080011	
63 (79) 1J	10	80	5×11.5	ECR1JKL100M□□050011
	22	170	6.3×11.5	ECR1JKL220M□□063011
	33	170	6.3×11.5	ECR1JKL330M□□063011
	47	240	8×11.5	ECR1JKL470M□□080011
100 (125) 2A	0.47	20	5×11.5	ECR2AKL47M□□050011
	1	40	5×11.5	ECR2AKL010M□□050011
	2.2	50	5×11.5	ECR2AKL2R2M□□050011
	3.3	60	5×11.5	ECR2AKL3R3M□□050011
	4.7	70	5×11.5	ECR2AKL4R7M□□050011
	10	150	6.3×11.5	ECR2AKL100M□□063011
22	230	8×11.5	ECR2AKL220M□□080011	

Customer products are available on request.