

2000h at 85°C

- Load life of 2000 hours at 85°C
- High ripple current
- Used for air conditioner, general-purpose inverter

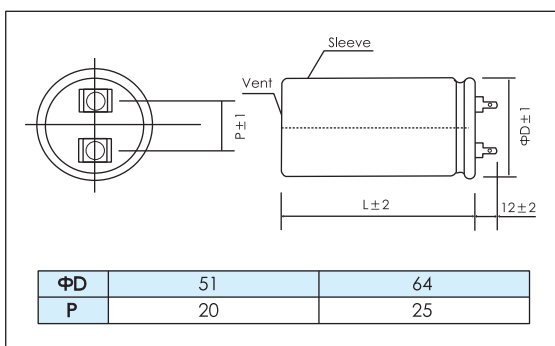


Items	Characteristics
Rated Voltage Range (V)	400 ~ 450
Operating Temperature Range (°C)	-25 ~ +85
Capacitance Tolerance (20°C, 120Hz)	± 20%
Leakage Current (µA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 5mA. C: Nominal Capacitance (µF) V: Rated Voltage (V)
Dissipation Factor (20°C, 120Hz)	Less than 0.20

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h	≥75000	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 ± 10% 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 130% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U_R I_R 85°C	U_R $1.4 \times I_R$ 40°C	U_R I_R 85°C	U_R $I_R = 0$ 85°C	$U_R = 0$ $I_R = 0$ 85°C After test: U_R to be applied for 30min >24h before measurement

Dimensions

mm



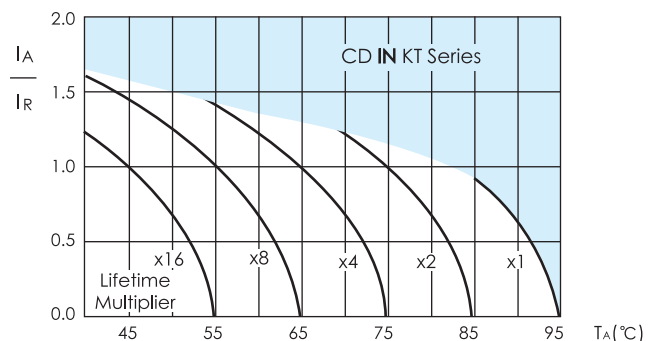
Frequency Coefficient

Frequency	50/60Hz	120Hz	300Hz	1kHz	≥10kHz
Coefficient	0.70	1.00	1.10	1.30	1.40

Temperature Coefficient

Temperature(°C)	+40	+60	+85
Coefficient	1.89	1.67	1.00

Lifetime Diagram



I_A = actual ripple current at 120Hz, I_R = rated ripple current at 120Hz, 85°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load

Ratings for CD IN KT Series

U _R (Surge Voltage) Code	Rated Capacitance	Dissipation Factor	Leakage Current	Max ESR 20°C, 120Hz	Rated Ripple Current 85°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	-	(mA)	(mΩ)	(Arms)	(mm)	-
400 (450) 2G	680	0.20	2.7	421	2.7	51 × 64	ECL2GKT681M510064
	820	0.20	3.2	349	3.0	51 × 64	ECL2GKT821M520064
	1000	0.20	4.0	287	3.5	51 × 75	ECL2GKT102M510075
	1200	0.20	4.8	239	3.8	51 × 75	ECL2GKT122M510075
	1500	0.20	5.0	191	4.7	51 × 96	ECL2GKT152M510096
	1800	0.20	5.0	159	5.1	51 × 96	ECL2GKT182M510096
	2200	0.20	5.0	130	6.2	51 × 121	ECL2GKT222M510121
	2700	0.20	5.0	107	6.9	64 × 96	ECL2GKT272M640096
	3300	0.20	5.0	86.8	7.9	64 × 105	ECL2GKT332M640105
	3900	0.20	5.0	73.5	9.0	64 × 121	ECL2GKT392M640121
450 (500) 2W	680	0.20	2.7	421	2.6	51 × 64	ECL2WKT681M510064
	820	0.20	3.2	349	3.1	51 × 75	ECL2WKT821M510075
	1000	0.20	4.0	287	3.5	51 × 75	ECL2WKT102M510075
	1200	0.20	4.8	239	4.3	51 × 96	ECL2WKT122M510096
	1500	0.20	5.0	191	4.8	51 × 109	ECL2WKT152M510109
	1800	0.20	5.0	159	5.5	51 × 121	ECL2WKT182M510121
	2200	0.20	5.0	130	6.3	64 × 96	ECL2WKT222M640096
	2700	0.20	5.0	106.2	7.1	64 × 105	ECL2WKT272M640105
	3300	0.20	5.0	86.8	8.3	64 × 121	ECL2WKT332M640121
	3900	0.20	5.0	73.5	9.8	64 × 144	ECL2WKT392M640144

Customer products are available on request.