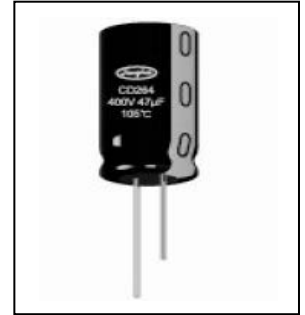
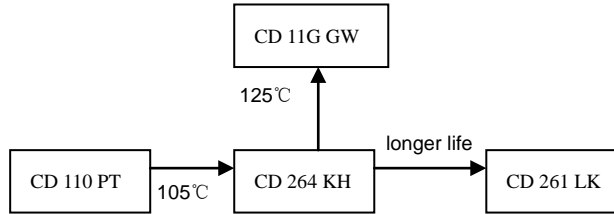


CD 264 KH Series



3000h at 105°C

- High rated voltage, up to 500v
- High-reliability and professional applications
- Lighting of high voltages in power supplies
- Filtering of high voltages in power supplies



Items	Characteristics								
Operating Temperature Range(°C)	-40~+105				-25~+105				
Voltage Range(V)	160~250				350~500				
Capacitance Range(μF)	1~220								
Capacitance Tolerance(20°C,120Hz)	±20%								
Leakage Current(μA)	After 1minute at 20°C application of rated voltage,leakage current is not more than: $CV \leq 1000:1 \leq 0.06 CV + 40$ $CV > 1000:1 \leq 0.03 CV + 70$ C: Nominal Capacitance (μF) V: Rated Voltage(V)								
Dissipation Factor (20°C, 120Hz)	WV (V)	160	200	250	350	400	420	450	500
	Tan δ (max)	0.12			0.15		0.20		
Stability at low temperature(Impedance Ratio at 120Hz)	Rated Voltage(V)	160	200	250	350	400	420	450	500
	Impedance	$Z_{-25^\circ C} / Z_{+20^\circ C}$			3		6		8
	Ratio	$Z_{-40^\circ C} / Z_{+20^\circ C}$			4		-		

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	6000h	>70000h	3000h	4000h	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 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 $1.4 \times I_R$ 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

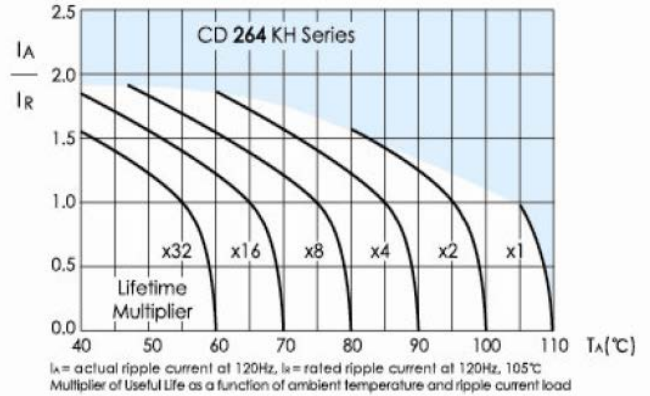
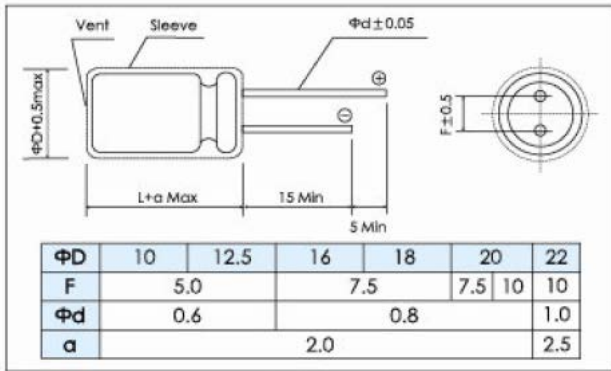
CD 264 KH Series



Dimensions

mm

Lifetime Diagram



Frequency coefficient

Frequency Cap(μF)	50/60Hz	120Hz	1kHz	10kHz	50kHz	100kHz
1.0~10	0.8	1.0	1.75	2.0	2.4	2.5
22~47	0.8	1.0	1.6	1.8	1.9	2.0
68~220	0.8	1.0	1.3	1.4	1.55	1.6

Temperature Coefficient

Temperature(°C)	+70	+85	+105
Coefficient	1.80	1.40	1.00

Ratings for CD264 KH Series

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(v)	(μF)	(Ω)	(Ω)	(mArms)	(mm)	
160 (200) 2C	10	15.9	5.3	95	10*12.5	ECR2CKH100M□□100012
	22	7.2	2.4	145	10*16	ECR2CKH220M□□100016
	33	4.8	1.6	190	10*20	ECR2CKH330M□□100020
	47	3.4	1.1	280	12.5*20	ECR2CKH470M□□125020
	100	1.6	0.5	380	18*20	ECR2CKH101M□□180020
		1.6	0.5	380	16*25.5	ECR2CKH101M□□160025
	220	0.7	0.2	630	16*35.5	ECR2CKH221M□□160035
200 (250) 2D	4.7	33.9	11.2	60	10*12.5	ECR2DKH4R7M□□100012
	10	15.9	5.3	95	10*16	ECR2DKH100M□□100016
	22	7.2	2.4	145	10*20	ECR2DKH220M□□100020
	33	4.8	1.6	190	12.5*20	ECR2DKH330M□□125020
		3.4	1.1	280	12.5*25	ECR2DKH470M□□125025
	47	3.4	1.1	280	16*20	ECR2DKH470M□□160020
		1.6	0.5	410	16*25.5	ECR2DKH101M□□160025
	100	1.6	0.5	410	18*20	ECR2DKH101M□□180020
250 (300) 2E	4.7	33.9	11.2	60	10*12.5	ECR2EKH4R7M□□100012
	10	15.9	5.3	105	10*16	ECR2EKH100M□□100016
	22	7.2	2.4	180	12.5*20	ECR2EKH220M□□125020
	33	4.8	1.6	250	12.5*25	ECR2EKH330M□□125025
		4.8	1.6	250	16*20	ECR2EKH330M□□160020
	47	3.4	1.1	300	16*25.5	ECR2EKH470M□□160025
		3.4	1.1	300	18*20	ECR2EKH470M□□180020
	100	1.6	0.5	410	16*31.5	ECR2EKH101M□□160031
		1.6	0.5	410	18*25.5	ECR2EKH101M□□180025
	350 (400) 2V	3.3	60.3	19.9	50	8*11.5
4.7		42.3	14	65	10*16	ECR2VKH4R7M□□100016
10		19.9	6.6	120	10*20	ECR2VKH100M□□100020
22		9	3	180	12.5*20	ECR2VKH220M□□125020
33		6	2	210	12.5*25	ECR2VKH330M□□125025

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(v)	(μF)	(Ω)	(Ω)	(mArms)	(mm)	
420 (470) 2X	1	265.4	87.6	23	10*12.5	ECR2XKH010M□□100012
	2.2	120.6	40	38	10*16	ECR2XKH2R2M□□100016
	3.3	80.4	26.5	45	10*20	ECR2XKH3R3M□□100020
	4.7	56.5	18.6	60	10*20	ECR2XKH4R7M□□100020
	10	26.5	8.8	118	12.5*20	ECR2XKH100M□□125020
	22	12.1	4	170	12.5*25	ECR2XKH220M□□125025
	33	8	2.7	230	16*25.5	ECR2XKH330M□□160025
	47	5.6	2.3	350	16*31.5	ECR2XKH470M□□160031
		4.7	1.9	425	16*31.5	ECR2XKH560M□□160031
	56	4.7	1.9	425	18*25.5	ECR2XKH560M□□180025
		3.9	1.6	510	18*31.5	ECR2XKH680M□□180031
	68	3.9	1.6	510	16*36	ECR2XKH680M□□160036
		3.2	1.3	625	18*31.5	ECR2XKH820M□□180031
	82	3.2	1.3	625	16*40	ECR2XKH820M□□160040
		2.7	1.1	720	18*36	ECR2XKH101M□□180036
	100	2.7	1.1	720	16*45	ECR2XKH101M□□160045
		2.2	0.9	800	18*40	ECR2XKH121M□□180040
120	2.2	0.9	800	16*50	ECR2XKH121M□□160050	
	1.8	0.7	850	20*41	ECR2XKH151M□□200041	
150	1.8	0.7	850	16*60	ECR2XKH151M□□160060	
	1	265.4	87.6	30	10*12.5	ECR2WKH010M□□100012
450 (500) 2W	2.2	120.6	39.8	45	10*16	ECR2WKH2R2M□□100016
	3.3	80.4	26.5	65	10*20	ECR2WKH3R3M□□100020
	4.7	56.5	18.6	80	12.5*20	ECR2WKH4R7M□□125020
	10	26.5	8.8	140	12.5*25	ECR2WKH100M□□125025
	22	12.1	4	220	16*25.5	ECR2WKH220M□□160025
	33	8	2.7	280	16*31.5	ECR2WKH330M□□160031
	47	5.6	1.9	420	16*31.5	ECR2WKH470M□□160031
	56	4.7	1.7	450	16*31.5	ECR2WKH560M□□160031

CD 264 KH Series



	47	4.2	1.4	350	16*25.5	ECR2VKH470M□□160025
		4.2	1.4	350	18*20	ECR2VKH470M□□180020
	100	2	0.7	650	18*31.5	ECR2VKH101M□□180031
400 (450) 2G	2.2	90.5	29.9	40	10*12.5	ECR2GKH2R2M□□100012
	3.3	60.3	19.9	50	10*16	ECR2GKH3R3M□□100016
	4.7	42.3	14	70	10*20	ECR2GKH4R7M□□100020
	10	19.9	6.3	120	12.5*20	ECR2GKH100M□□125020
	22	9	3	200	12.5*25	ECR2GKH220M□□125025
	33	6	2	245	18*20	ECR2GKH330M□□180020
		6	2	245	16*25.5	ECR2GKH330M□□160025
	47	4.2	1.4	380	18*25.5	ECR2GKH470M□□180025
		4.2	1.4	380	16*31.5	ECR2GKH470M□□160031
	68	2.9	1	500	18*25.5	ECR2GKH680M□□180025
	82	2.4	0.8	610	18*31.5	ECR2GKH820M□□180031
	100	2	0.7	700	18*36	ECR2GKH101M□□180036
	120	1.7	0.6	785	18*40	ECR2GKH121M□□180040
	150	1.3	0.4	840	20*41	ECR2GKH151M□□200041

	68	4.7	1.7	450	18*25.5	ECR2WKH560M□□180025
		3.9	1.3	590	18*31.5	ECR2WKH680M□□180031
	82	3.9	1.3	590	16*36	ECR2WKH680M□□160036
		3.2	1.1	650	18*31.5	ECR2WKH820M□□180031
	100	3.2	1.1	650	18*36	ECR2WKH820M□□180036
		3.2	1.1	650	16*40	ECR2WKH820M□□160040
	120	2.7	0.9	760	18*36	ECR2WKH101M□□180036
		2.7	0.9	760	16*45	ECR2WKH101M□□160045
	150	2.2	0.7	830	18*40	ECR2WKH121M□□180040
		2.2	0.7	830	16*50	ECR2WKH121M□□160050
	180	1.8	0.6	920	20*41	ECR2WKH151M□□200041
		1.8	0.6	920	18*46	ECR2WKH151M□□180046
		1.8	0.6	920	16*60	ECR2WKH151M□□160060
	450 (500) 2 W	1	265.4	106.2	32	10*12.5
2.2		120.6	48.3	49	10*16	ECR2HKH2R2M□□100016
3.3		80.4	32.2	68	10*20	ECR2HKH3R3M□□100020
4.7		56.5	22.6	84	12.5*20	ECR2HKH4R7M□□125020
10		26.5	10.6	145	12.5*25	ECR2HKH100M□□125025
22		12.1	4.8	230	16*25.5	ECR2HKH220M□□160025
33		8	3.2	295	16*31.5	ECR2HKH330M□□160031
47		5.6	2.3	415	18*31.5	ECR2HKH470M□□180031
		5.6	2.3	415	16*36	ECR2HKH470M□□160036
56		4.7	1.9	460	18*31.5	ECR2HKH560M□□180031
		4.7	1.9	460	16*40	ECR2HKH560M□□160040
68		3.9	1.6	580	18*36	ECR2HKH680M□□180036
		3.9	1.6	580	18*40	ECR2HKH680M□□180040
		3.9	1.6	580	16*45	ECR2HKH680M□□160045
82		3.2	1.3	650	18*40	ECR2HKH820M□□180040
		3.2	1.3	650	16*55	ECR2HKH820M□□160055
100		2.7	1.1	820	20*41	ECR2HKH101M□□200041
		2.7	1.1	820	18*46	ECR2HKH101M□□180046
		2.7	1.1	820	16*60	ECR2HKH101M□□160060
120		2.2	0.9	860	22*45	ECR2HKH121M□□220045
150		1.8	0.7	930	22*45	ECR2HKH151M□□220045

Customer products are available on request

Typical Curves

