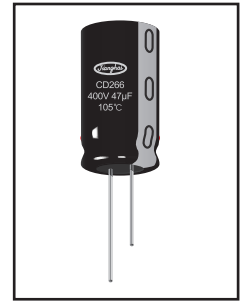


CD 266 FK SERIES



5000h at 105°C

- Polarized aluminum electrolytic capacitors, non-solid
- Pressure relief
- Long useful life: 10000 hours at 105°C
- High rated voltage, up to 500V
- High-reliability and professional applications
- Lighting, monitors, general industrial
- Filtering of high voltages in power supplies

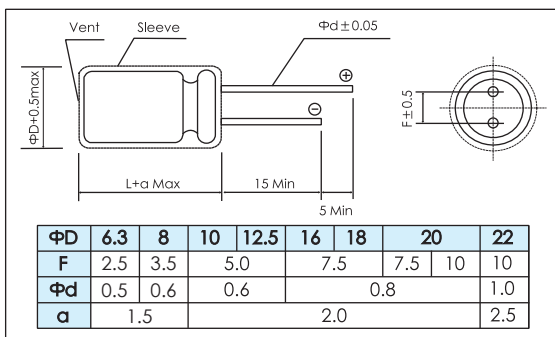


Items	Characteristics	
Operating Temperature Range (°C)	-40 ~ +105	-25 ~ +105
Voltage Range (V)	160 ~ 250	350 ~ 500
Capacitance Range (µF)	1 ~ 220	
Capacitance Tolerance (20°C, 120Hz)	± 20%	
Leakage Current (µA)	After 1 minute at 20°C application of rated voltage, leakage current is not more than: $CV \leq 1000 : I \leq 0.06CV + 40$ $CV > 1000 : I \leq 0.03CV + 70$ 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)	
	Impedance	$Z_{-25^\circ\text{C}} / Z_{+20^\circ\text{C}}$
	Ratio	$Z_{-40^\circ\text{C}} / Z_{+20^\circ\text{C}}$

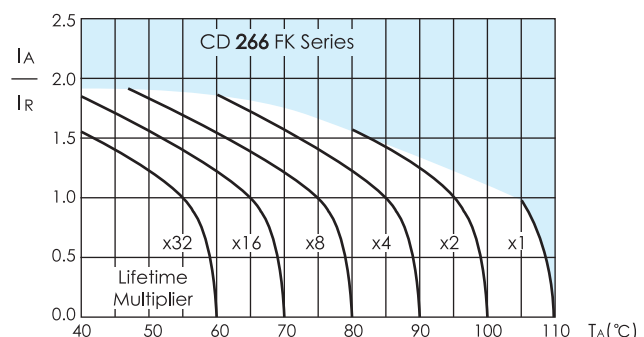
	Useful Life	Load Life	Endurance Test	Shelf Life
Lifetime	Φ 6.3 : 4000h Φ 8 : 6000h Φ 10 : 8000h ≥ Φ 12.5 : 10000h ≥ Φ 10 : 90000h	Φ 6.3 : 2000h Φ 8 : 3000h Φ 10 : 4000h ≥ Φ 12.5 : 5000h	Φ 6.3 : 3000h Φ 8 : 5000h Φ 10 : 6000h ≥ Φ 12.5 : 7000h	1000h
Leakage Current	Not more than specified value	Not more 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 $I_R = 0$ 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	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
56~220	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



CD 266 FK SERIES

Ratings for CD 266 FK Series

U _r (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	7	95	10×12.5	ECR2CFK100M□□100012	
	22	7.2	3.5	145	10×16	ECR2CFK220M□□100016	
	33	4.8	2.2	190	10×20	ECR2CFK330M□□100020	
	47	3.4	1.5	280	12.5×20	ECR2CFK470M□□125020	
	100	1.6	0.7	380	18×20	ECR2CFK101M□□180020	
		1.6	0.7	380	16×25.5	ECR2CFK101M□□160025	
	220	0.7	0.3	630	16×35.5	ECR2CFK221M□□160035	
200 (250) 2D	4.7	33.9	14	60	10×12.5	ECR2DFK4R7M□□100012	
	10	15.9	7	95	10×16	ECR2DFK100M□□100016	
	22	7.2	3.5	145	10×20	ECR2DFK220M□□100020	
	33	4.8	2.2	190	12.5×20	ECR2DFK330M□□125020	
	47	3.4	1.5	280	12.5×25	ECR2DFK470M□□125025	
		3.4	1.5	280	16×20	ECR2DFK470M□□160020	
	100	1.6	0.7	410	16×25.5	ECR2DFK101M□□160025	
1.6	0.7	410	18×20	ECR2DFK101M□□180020			
250 (300) 2E	4.7	33.9	14	60	10×12.5	ECR2EFK4R7M□□100012	
	10	15.9	7	105	10×16	ECR2EFK100M□□100016	
	22	7.2	3.5	180	12.5×20	ECR2EFK220M□□125020	
	33	4.8	2.2	250	12.5×25	ECR2EFK330M□□125025	
		4.8	2.2	250	16×20	ECR2EFK330M□□160020	
	47	3.4	1.5	300	16×25.5	ECR2EFK470M□□160025	
		3.4	1.5	300	18×20	ECR2EFK470M□□180020	
	100	1.6	0.7	410	16×31.5	ECR2EFK101M□□160031	
		1.6	0.7	410	18×25.5	ECR2EFK101M□□180025	
	150	1.1	0.5	500	18×25.5	ECR2EFK151M□□180025	
	220	0.7	0.3	700	18×36	ECR2EFK221M□□180036	
	3.3	60.3	28	50	8×11.5	ECR2VFK3R3M□□080011	
	350 (400) 2V	4.7	42.3	19	65	10×16	ECR2VFK4R7M□□100016
		10	19.9	10	120	10×20	ECR2VFK100M□□100020
		22	9.0	4	180	12.5×20	ECR2VFK220M□□125020
33		6.0	2.5	210	12.5×25	ECR2VFK3R3M□□125025	
47		4.2	1.8	300	16×25.5	ECR2VFK470M□□160025	
		4.2	1.8	300	18×20	ECR2VFK470M□□180020	
100		2.0	0.8	528	18×31.5	ECR2VFK101M□□180031	
400 (450) 2G		2.2	90.5	40	33	8×11.5	ECR2GFK2R2M□□080011
			90.5	40	40	10×12.5	ECR2GFK2R2M□□100012
		3.3	60.3	28	43	10×12.5	ECR2GFK3R3M□□100012
			60.3	28	50	10×16	ECR2GFK3R3M□□100016
	4.7	42.3	19	64	10×16	ECR2GFK4R7M□□100016	
		42.3	19	70	10×20	ECR2GFK4R7M□□100020	
	10	19.9	10	100	10×20	ECR2GFK100M□□100020	
		19.9	10	120	12.5×20	ECR2GFK100M□□125020	
	22	9.0	4	200	12.5×25	ECR2GFK220M□□125025	
	33	6.0	2.5	245	18×20	ECR2GFK330M□□180020	
		6.0	2.5	245	16×25.5	ECR2GFK330M□□160025	
	47	4.2	1.8	365	16×25.5	ECR2GFK470M□□160025	
		4.2	1.8	380	16×31.5	ECR2GFK470M□□160031	
	4.2	1.8	380	18×25.5	ECR2GFK470M□□180025		
		2.9	1.2	500	18×31.5	ECR2GFK680M□□180031	
82	2.4	1	610	18×31.5	ECR2GFK820M□□180031		
100	2.0	0.8	700	18×36	ECR2GFK101M□□180036		
120	1.7	0.6	785	18×40	ECR2GFK121M□□180040		
150	1.3	0.5	840	20×41	ECR2GFK151M□□200041		
420 (470) 2X	1	265.4	80	17	6.3×11.5	ECR2XFK010M□□063011	
		120.6	40	30	8×11.5	ECR2XFK2R2M□□080011	
	3.3	80.4	24	36	10×12.5	ECR2XFK3R3M□□100012	
		80.4	24	40	10×16	ECR2XFK3R3M□□100016	
	4.7	56.5	17	56	10×16	ECR2XFK4R7M□□100016	
		56.5	17	65	10×20	ECR2XFK4R7M□□100020	
	10	26.5	8	95	10×20	ECR2XFK100M□□100020	
		26.5	8	118	12.5×20	ECR2XFK010M□□125020	
	15	17.7	7.1	130	12.5×20	ECR2XFK150M□□125020	
	22	12.1	3.8	175	12.5×25	ECR2XFK220M□□125025	
	33	8	3.2	232	12.5×30	ECR2XFK330M□□125030	
	47	5.6	2.3	324	16×31.5	ECR2XFK470M□□160031	
	56	4.7	1.9	434	16×31.5	ECR2XFK560M□□160031	
		4.7	1.9	434	18×25.5	ECR2XFK560M□□180025	
	68	3.9	1.6	529	18×31.5	ECR2XFK680M□□180031	
		3.9	1.6	529	16×36	ECR2XFK680M□□160036	
	82	3.2	1.3	645	18×31.5	ECR2XFK820M□□180031	
		3.2	1.3	645	16×40	ECR2XFK820M□□160040	
	100	2.7	1.1	760	18×36	ECR2XFK101M□□180036	
2.7		1.1	760	16×45	ECR2XFK101M□□160045		
120	2.2	0.9	830	18×40	ECR2XFK121M□□180040		
	2.2	0.9	830	16×50	ECR2XFK121M□□160050		
150	1.8	0.7	880	20×41	ECR2XFK151M□□200041		
	1.8	0.7	880	16×60	ECR2XFK151M□□160060		
450 (500) 2W	1	265.4	80	18	6.3×11.5	ECR2WFK010M□□063011	
	2.2	120.6	40	30	8×11.5	ECR2WFK2R2M□□080011	
		120.6	40	38	10×12.5	ECR2WFK2R2M□□100012	
	3.3	80.4	24	50	10×16	ECR2WFK3R3M□□100016	
80.4		24	65	10×20	ECR2WFK3R3M□□100020		

U _r (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)	-
450 (500) 2W	4.7	56.5	17	65	10×20	ECR2WFK4R7M□□100020
		56.5	17	80	12.5×20	ECR2WFK4R7M□□125020
	10	26.5	8	110	12.5×20	ECR2WFK100M□□125020
		26.5	8	140	12.5×25	ECR2WFK100M□□125025
	22	12.1	3.5	175	12.5×25	ECR2WFK220M□□125025
		12.1	3.5	220	16×25.5	ECR2WFK220M□□160025
	33	8	2.5	245	16×25.5	ECR2WFK330M□□160025
		8	2.5	280	16×31.5	ECR2WFK330M□□160031
	47	5.6	2	420	16×31.5	ECR2WFK470M□□160031
	56	4.7	1.7	520	16×31.5	ECR2WFK560M□□160031
		4.7	1.7	470	18×25.5	ECR2WFK560M□□180025
	68	3.9	1.4	610	16×36	ECR2WFK680M□□160036
		3.9	1.4	610	18×31.5	ECR2WFK680M□□180031
	82	3.2	1.1	680	18×31.5	ECR2WFK820M□□180031
		3.2	1.1	680	18×36	ECR2WFK820M□□180036
	3.2	1.1	680	16×40	ECR2WFK820M□□160040	
		2.7	0.9	800	18×36	ECR2WFK101M□□180036
	2.7	0.9	800	16×45	ECR2WFK101M□□160045	
		2.2	0.8	875	18×40	ECR2WFK121M□□180040
	2.2	0.8	875	16×50	ECR2WFK121M□□160050	
		1.8	0.6	935	20×41	ECR2WFK151M□□200041
	1.8	0.6	935	16×60	ECR2WFK151M□□160060	
		1.5	0.5	1100	22×45	ECR2WFK181M□□220045
	1	265.4	106	24	8×11.5	ECR2HFK010M□□080011
		265.4	106	32	10×12.5	ECR2HFK010M□□100012
	2.2	120.6	48	40	8×16	ECR2HFK2R2M□□080016
120.6		48	49	10×16	ECR2HFK2R2M□□100016	
3.3	80.4	32	68	10×20	ECR2HFK3R3M□□100020	
4.7	56.5	22.6	84	12.5×20	ECR2HFK4R7M□□125020	
10	26.5	10.6	145	12.5×25	ECR2HFK100M□□125025	
22	12.1	4.8	230	16×25.5	ECR2HFK220M□□160025	
33	8.0	3.2	295	16×31.5	ECR2HFK330M□□160031	
47	5.6	2.3	415	18×31.5	ECR2HFK470M□□180031	
	5.6	2.3	415	16×36	ECR2HFK470M□□160036	
56	4.7	1.9	470	18×31.5	ECR2HFK560M□□180031	
	4.7	1.9	470	16×40	ECR2HFK560M□□160040	
68	3.9	1.6	620	16×45	ECR2HFK680M□□160045	
	3.9	1.6	620	18×36	ECR2HFK680M□□180036	
3.9	1.6	620	18×40	ECR2HFK680M□□180040		
	3.2	1.3	680	18×40	ECR2HFK820M□□180040	
3.2	1.3	680	16×55	ECR2HFK820M□□160055		
	2.7	1.1	860	18×46	ECR2HFK101M□□180046	
2.7	1.1	860	20×41	ECR2HFK101M□□200041		
	2.7	1.1	860	16×60	ECR2HFK101M□□160060	
120	2.2	0.9	900	22×45	ECR2HFK121M□□220045	
150	1.8	0.7	980	22×45	ECR2HFK151M□□220045	

MINIATURE

Customer products are available on request.

Typical Curves

