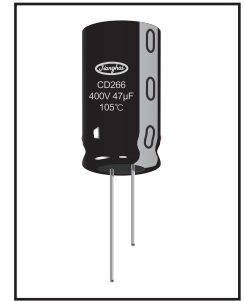


5000h at 105°C

- 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

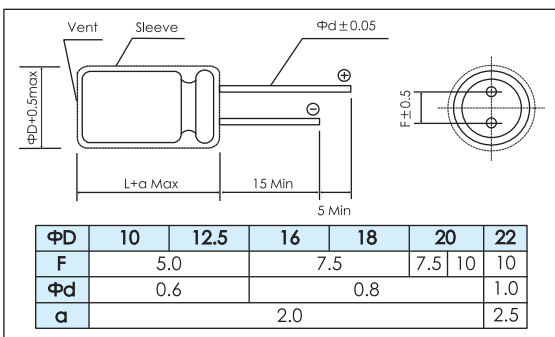


Items	Characteristics	
Operating Temperature Range (°C)	-40 ~ +105	-25 ~ +105
Voltage Range (V)	160 ~ 250	350 ~ 500
Capacitance Range (μF)	1 ~ 220	
Capacitance Tolerance (20°C, 120Hz)	± 20%	
Leakage Current (μA)	After 1 minute at 20°C application of rated voltage, leakage current is not more than: $CV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

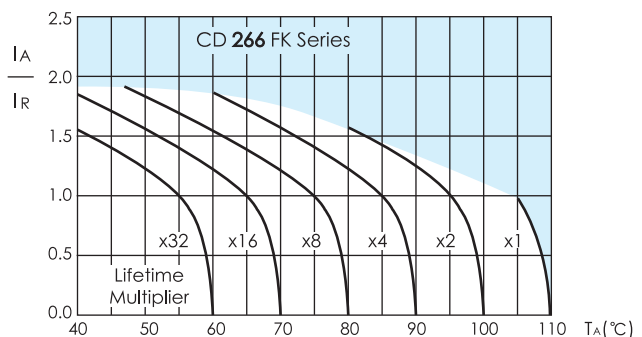
	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	φ 6.3 : 4000h φ 8 : 6000h φ 10 : 8000h ≥ φ 12.5 : 10000h	≥ φ 10: 90000h	φ 6.3 : 2000h φ 8 : 3000h φ 10 : 4000h ≥ φ 12.5 : 5000h	φ 6.3 : 3000h φ 8 : 5000h φ 10 : 6000h ≥ φ 12.5 : 7000h	1000h
Leakage Current	Not more than specified value		Not more 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 105°C	U_R $I_R = 0$ 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

MINIATURE

CD 266 FK SERIES



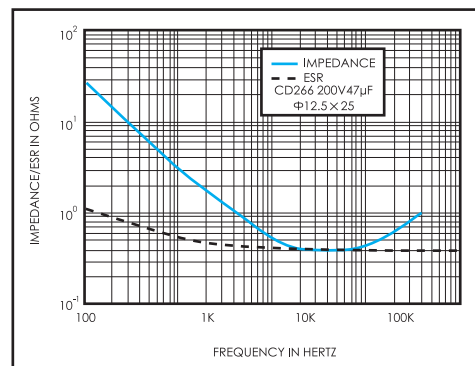
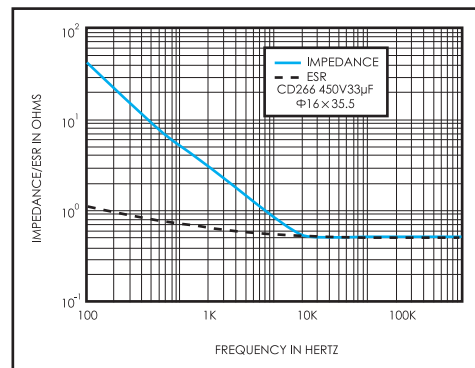
Ratings for CD 266 FK Series

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	10x12.5	ECR2CFK100M□□100012
	22	7.2	3.5	145	10x16	ECR2CFK220M□□100016
	33	4.8	2.2	190	10x20	ECR2CFK330M□□100020
	47	3.4	1.5	280	12.5x20	ECR2CFK470M□□125020
	100	1.6	0.7	380	18x20	ECR2CFK101M□□180020
200 (250) 2D	100	1.6	0.7	380	16x25.5	ECR2CFK101M□□160025
	220	0.7	0.3	630	16x35.5	ECR2CFK221M□□160035
	4.7	33.9	14	60	10x12.5	ECR2DFK4R7M□□100012
	10	15.9	7	95	10x16	ECR2DFK100M□□100016
	22	7.2	3.5	145	10x20	ECR2DFK220M□□100020
250 (300) 2E	33	4.8	2.2	190	12.5x20	ECR2DFK330M□□125020
	47	3.4	1.5	280	12.5x25	ECR2DFK470M□□125025
	100	1.6	0.7	410	16x25.5	ECR2DFK101M□□160025
	150	1.1	0.5	500	18x25.5	ECR2DFK101M□□180025
	220	0.7	0.3	700	18x36	ECR2DFK221M□□180036
350 (400) 2V	3.3	60.3	28	50	8x11.5	ECR2VFK3R3M□□080011
	4.7	42.3	19	65	10x16	ECR2VFK4R7M□□100016
	10	19.9	10	120	10x20	ECR2VFK100M□□100020
	22	9.0	4	180	12.5x20	ECR2VFK220M□□125020
	33	6.0	2.5	210	12.5x25	ECR2VFK330M□□125025
400 (450) 2G	47	4.2	1.8	300	16x25.5	ECR2VFK470M□□160025
	100	2.0	0.8	528	18x31.5	ECR2VFK101M□□180031
	2.2	90.5	40	33	8x11.5	ECR2GFK2R2M□□080011
	3.3	60.3	28	43	10x12.5	ECR2GFK3R3M□□100012
	4.7	42.3	19	64	10x16	ECR2GFK4R7M□□100016
420 (470) 2X	10	19.9	10	100	10x20	ECR2GFK100M□□100020
	22	9.0	4	200	12.5x25	ECR2GFK220M□□125025
	33	6.0	2.5	245	18x20	ECR2GFK330M□□180020
	47	4.2	1.8	365	16x25.5	ECR2GFK470M□□160025
	68	2.9	1.2	500	18x31.5	ECR2GFK680M□□180031
450 (500) 2W	82	2.4	1	610	18x31.5	ECR2GFK820M□□180031
	100	2.0	0.8	700	18x36	ECR2GFK101M□□180036
	120	1.7	0.6	785	18x40	ECR2GFK121M□□180040
	150	1.3	0.5	840	20x41	ECR2GFK151M□□200041
	1	265.4	80	17	6.3x11.5	ECR2XFK010M□□063011
450 (500) 2W	2.2	120.6	40	30	8x11.5	ECR2XFK2R2M□□080011
	3.3	80.4	24	36	10x12.5	ECR2XFK3R3M□□100012
	4.7	56.5	17	56	10x16	ECR2XFK4R7M□□100016
	10	26.5	8	95	10x20	ECR2XFK100M□□100020
	15	17.7	7.1	130	12.5x20	ECR2XFK150M□□125020
450 (500) 2W	22	12.1	3.8	175	12.5x25	ECR2XFK220M□□125025
	33	8	2.5	245	16x25.5	ECR2XFK330M□□160025
	47	5.6	3.2	324	16x31.5	ECR2XFK470M□□160031
	56	4.7	4.7	434	16x31.5	ECR2XFK560M□□160031
	68	3.9	3.9	529	18x31.5	ECR2XFK680M□□180031
450 (500) 2W	82	3.2	3.2	645	18x31.5	ECR2XFK820M□□180031
	100	2.7	2.7	760	18x36	ECR2XFK101M□□180036
	120	2.2	2.2	830	18x40	ECR2XFK121M□□180040
	150	1.8	1.8	880	20x41	ECR2XFK151M□□200041
	1	265.4	80	18	6.3x11.5	ECR2WFK010M□□063011
450 (500) 2W	2.2	120.6	40	30	8x11.5	ECR2WFK2R2M□□080011
	3.3	80.4	24	36	10x12.5	ECR2WFK3R3M□□100012
	4.7	56.5	17	56	10x16	ECR2WFK4R7M□□100016
	10	26.5	8	95	10x20	ECR2WFK100M□□100020
	15	17.7	7.1	130	12.5x20	ECR2WFK150M□□125020

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	10x20	ECR2WFK4R7M□□100020
	10	26.5	8	110	12.5x20	ECR2WFK100M□□125020
	22	12.1	3.5	175	12.5x25	ECR2WFK220M□□125025
	33	8	2.5	245	16x25.5	ECR2WFK330M□□160025
	47	5.6	2	280	16x31.5	ECR2WFK470M□□160031
500 (550) 2H	56	4.7	1.7	470	18x25.5	ECR2WFK560M□□180025
	68	3.9	1.4	610	16x36	ECR2WFK680M□□180036
	82	3.2	1.1	680	18x31.5	ECR2WFK820M□□180031
	100	2.7	0.9	800	18x36	ECR2WFK101M□□180036
	120	2.2	0.8	875	18x40	ECR2WFK121M□□180040
500 (550) 2H	150	1.8	0.6	935	20x41	ECR2WFK151M□□200041
	1	265.4	106	24	8x11.5	ECR2HFK010M□□080011
	2.2	120.6	48	40	10x12.5	ECR2HFK2R2M□□080011
	3.3	80.4	32	48	10x16	ECR2HFK3R3M□□100016
	4.7	56.5	22.6	68	10x20	ECR2HFK4R7M□□100020
500 (550) 2H	10	26.5	10.6	145	12.5x25	ECR2HFK100M□□125025
	22	12.1	4.8	230	16x25.5	ECR2HFK220M□□160025
	33	8.0	3.2	295	16x31.5	ECR2HFK330M□□160031
	47	5.6	2.3	415	18x31.5	ECR2HFK470M□□180031
	56	4.7	1.9	470	16x36	ECR2HFK560M□□180031
500 (550) 2H	68	3.9	1.6	620	16x40	ECR2HFK680M□□180040
	82	3.2	1.3	680	18x36	ECR2HFK820M□□180040
	100	2.7	1.1	860	18x40	ECR2HFK101M□□180046
	120	2.2	0.9	900	20x41	ECR2HFK121M□□220045
	150	1.8	0.7	980	22x45	ECR2HFK151M□□220045

Customer products are available on request.

Typical Curves



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