

# Aluminum Electrolytic Capacitor

## KF series

# KFSON

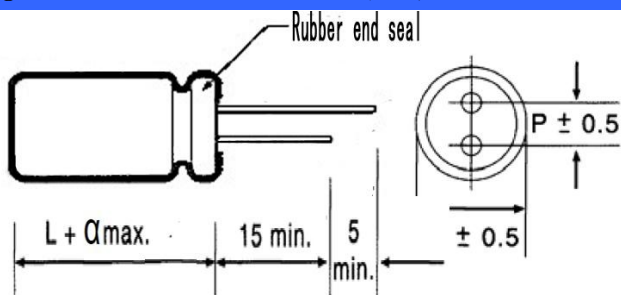
- ◆ Low impedance type
- ◆ Load life 2000-3000 Hrs at 105°C
- ◆ RoHS Compliant



### Specifications 規格表

Ltem 項目	Performance Characteristics 特性參數							
Operating Temperature Range 工作溫度範圍	-40 to +105°C	-25 to +105°C						
Rated Voltage Range 額定電壓範圍	100 VDC	160 to 450 VDC						
Capacitance Range 容量範圍	100 to 1000 µF	22 to 680 µF						
Capacitance Tolerance 靜電容量偏差	±20% (120Hz, +20°C)							
Leakage Current 漏電流	I ≤ 0.03CV or 3uA 1分鐘後讀數 I ≤ 0.01CV or 3uA 2分鐘後讀數	I ≤ 0.03CV 1分鐘後讀數 I ≤ 0.02CV 5分鐘後讀數						
Dissipation Factor 損耗角正切值 tan δ (%)	rated voltage (V)	100 160 200 250 350 400 450						
	tan δ % (Max)	8 20 20 20 20 24 24						
Low Temperature Characteristics 低溫特性	impedance ratio max 電容器最大阻抗比值							
	rated voltage (V)	100	160	200	250	350	400	450
	Z(-25°C)/Z(+20°C)	2	3	3	3	5	5	6
	Z(-40°C)/Z(+20°C)	3	6	6	6	6	6	-
Load Life 使用壽命	105°C施加額定工作電壓和額定紋波電流驚下表規定時間，恢復到20°C後，產品應滿足以下要求							
	Time for 100V	2000hours						
	Time for 160-450V	3000hours						
	Capacitance change	≤ ±20% of the initial value						
	D.F. (tan δ)	≤ 200% of the specified value						
	Leakage current	≤ The specified value						
Shelf Life 存儲特性	105°C放置1000小時，恢復到20°C後，產品應滿足以下性能要求							
	rated voltage (V)	100V				160-450V		
	Capacitance change	≤ ±20% of the initial value				≤ ±20% of the initial value		
	D.F. (tan δ)	≤ 200% of the specified value				≤ 200% of the specified value		
	Leakage current	≤ The specified value				≤ 500% of the specified value		

### Diagram of Dimensions 外形尺寸圖 (mm)



D Φ	13	16	18	22	25
P	5.0	7.5	7.5	10.0	12.5
d Φ	0.6	0.8	0.8	0.8	1.0

α	(L < 20) 1.5
	(L ≥ 20) 2.0

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Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current	Part NO.
V	μ F	mm	mA	
100V	220	13*25	950	KF221M10113*25A
		13*20	760	KF221M10013*20A
	270	13*30	1120	KF271M10013*30A
	330	13*20	936	KF331M10013*20A
		16*20	1152	KF331M10016*20A
		16*25	1440	KF331M10016*25A
		18*20	1296	KF331M10018*20A
	470	16*26	1340	KF471M10016*26A
		16*32	1650	KF471M10016*32A
		18*26	1508	KF471M10018*26A
	560	16*36	1720	KF561M10016*36A
	680	18*36	1790	KF681M10018*36A
		18*32	1591	KF681M10018*32A
		16*36	1591	KF681M10016*36A
	820	18*36	1840	KF821M10018*36A
	1000	18*36	1900	KF102M10018*36A
		18*41	1930	KF102M10018*41A
		22*30	1726	KF102M10022*30A
160V	100	16*25	540	KF101M16016*25A
		16*20	432	KF101M16016*20A
		13*20	351	KF101M16013*20A
	120	16*25	560	KF121M16016*25A
	150	16*32	710	KF151M16016*32A
	180	16*36	760	KF181M16016*36A
	220	16*26	593	KF221M16016*26A
		16*32	729	KF221M16016*32A
		18*26	666	KF221M16018*26A
		16*36	820	KF221M16016*36A
	270	18*36	990	KF271M16018*36A
	330	22*30	1055	KF331M16022*30A
		18*30	920	KF331M16018*30A
		18*36	950	KF331M16018*36A
		16*30	860	KF331M16016*30A
		18*41	1180	KF331M16018*41A
	470	18*36	1036	KF471M16018*36A
		22*40	1207	KF471M16022*40A
		16*40	1030	KF471M16016*40A
		22*30	1090	KF471M16022*30A
	680	18*40	1200	KF681M16018*40A
		18*45	1200	KF681M16018*45A
		22*40	1230	KF681M16022*40A
		22*35	1207	KF681M16022*35A

Ripple current (mA, rms) at 105°C 120Hz

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Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current	Part NO.
V	μ F	mm	mA	
200V	68	13*25	450	KF680M20013*25A
		13*20	360	KF680M20013*20A
	100	13*25	365	KF101M20013*25A
		16*25	540	KF101M20016*25A
	120	16*25	560	KF121M20016*25A
	150	16*32	710	KF151M20016*32A
		16*26	576	KF151M20016*26A
	180	16*36	760	KF181M20016*36A
	220	18*32	820	KF221M20018*32A
		16*36	820	KF221M20016*36A
	270	18*36	990	KF271M20018*36A
	330	18*35	980	KF331M20018*35A
		18*41	1080	KF331M20018*41A
	470	22*40	1100	KF471M20022*40A
		25*35	1063	KF471M20025*35A
	680	22*40	1110	KF681M20022*40A
25*35		1070	KF681M20025*35A	
250V	100	16*26	548	KF101M25016*26A
		16*32	675	KF101M25016*32A
		18*26	617	KF101M25018*26A
		18*20	475	KF101M25018*20A
	120	16*32	692	KF121M25016*32A
	150	18*26	610	KF151M25018*26A
		18*32	750	KF151M25018*32A
		22*25	716	KF151M25022*25A
		16*36	750	KF151M25016*36A
	180	22*25	792	KF181M25022*25A
		18*32	830	KF181M25018*32A
	220	18*32	850	KF221M25018*32A
		18*36	950	KF221M25018*36A
		18*40	1060	KF221M25018*40A
		22*30	973	KF221M25022*30A
		22*36	1160	KF221M25022*36A
	330	18*40	1065	KF331M25018*40A
		22*40	1080	KF331M25022*40A
		25*30	1070	KF331M25025*30A
	470	25*36	1095	KF471M25025*36A
25*42		1100	KF471M25025*42A	
680	25*42	1112	KF681M25025*42A	

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Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current	Part NO.	
V	μ F	mm	mA		
350V	22	13*20	220	KF220M35013*20A	
	33	13*20	263	KF330M35013*20A	
	47	16*25	389	KF470M35016*25A	
	68	16*32	475	KF680M35016*32A	
	100	18*36	481	KF101M35018*36A	
	120	18*36	525	KF121M35018*36A	
	150	18*41	560	KF151M35018*41A	
400V	22	13*20	295	KF220M40013*20A	
	33	13*25	440	KF330M40013*25A	
	47	16*25	580	KF470M40016*25A	
	68	100	16*32	800	KF680M40016*32A
			18*32	800	KF101M40018*32A
			18*36	900	KF101M40018*36A
			18*40	950	KF101M40018*40A
	120	120	22*30	916	KF101M40022*30A
			18*32	800	KF121M40018*32A
			18*36	926	KF121M40018*36A
	150	150	22*32	956	KF151M40022*32A
			18*35	960	KF151M40018*35A
			18*40	970	KF151M40018*40A
	180	180	18*40	975	KF181M40018*40A
			22*40	1010	KF181M40022*40A
			22*40	1050	KF221M40022*40A
	220	220	25*40	1080	KF221M40025*40A
	450V	22	13*25	320	KF220M45013*25A
13*20			256	KF220M45013*20A	
33		16*25	460	KF330M45016*25A	
47		16*36	650	KF470M45016*36A	
68		68	16*35	656	KF680M45016*35A
			18*26	548	KF680M45018*26A
			18*36	760	KF680M45018*36A
100		100	18*32	782	KF101M45018*32A
			18*36	880	KF101M45018*36A
			22*30	890	KF101M45022*30A
120		120	18*32	790	KF121M45018*32A
			18*36	800	KF121M45018*36A
			22*35	795	KF121M45022*35A
150		150	18*40	800	KF151M45018*40A
			22*36	800	KF151M45022*36A

Ripple current (mA, rms) at 105°C 120Hz