

# Aluminum Electrolytic Capacitor

## KS series

# KFSON

- ◆ Load life 3000 Hrs at 105°C
- ◆ RoHS Compliant

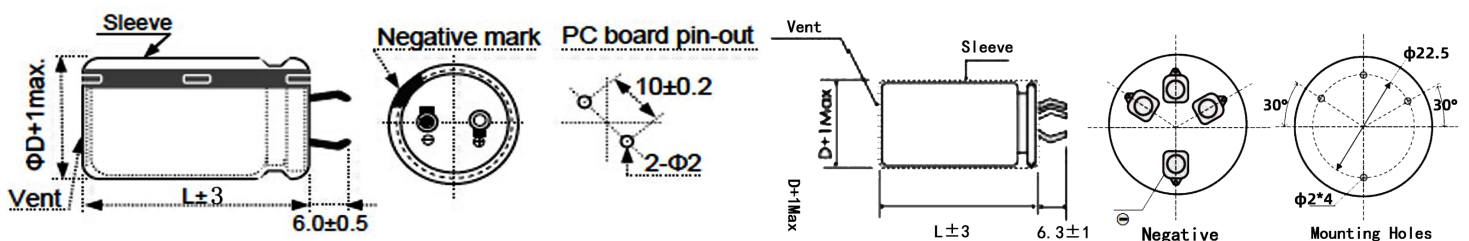


### Specifications 規格表

Ltem 項目	Performance Characteristics 特性參數
Operating Temperature Range 工作溫度範圍	-25 to +105°C
Rated Voltage Range 額定電壓範圍	160 to 450 VDC
Capacitance Range 容量範圍	68 to 3300 µF
Capacitance Tolerance 靜電容量偏差	±20% (120Hz, +20°C)
Leakage Current 漏電流	After 5 minutes at 20° C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller C: Nominal Capacitance(µF) V: Rated Voltage(V)
Dissipation Factor 損耗角正切值 tan δ (%)	rated voltage (V)   160-400   450
	tan δ (Max)   15   20
Low Temperature Characteristics 低溫特性	impedance ratio max 電容器最大阻抗比值
	rated voltage (V)   160-400   450
	Z(-25°C)/Z(+20°C)   4   8
Load Life 使用壽命	施加額定工作電壓和工作電流，恢復到20°C后，產品性能應滿足以下要求 the following specifications shall be satisfied when the capacitors are restored to 20°C after application of rated voltage with rated ripple current
	Duration time   3000Hrs
	Capacitance change   ≤±20% of the initial value
	Dissipation factor   ≤200% of the initial specified value
	Leakage current   ≤The specified value
Shelf Life 存儲特性	105°C放置1000小時，經恢復後，產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.
	Capacitance change   ≅ ±20% of the initial value
	D.F. (tan δ)   ≅ 150% of the specified value
	Leakage current   ≅ The specified value

### Diagram of Dimensions 外形尺寸圖 (mm)

●Standard Terminal Type : S (Φ22 ~ Φ35)



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### Standard Ratings

Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current	
V	μ F	mm	A	
160V	220	22*26	0.45	
	330	22*25	1.11	
		22*31	1.12	
		25*26	1.13	
		30*26	1.15	
		22*25	1.41	
	470	22*30	1.45	
		22*36	1.55	
		25*25	1.48	
		25*31	1.55	
		30*26	1.55	
		560	22*36	1.60
			22*41	1.67
	25*30		1.60	
	25*36		1.67	
	30*31		1.67	
	35*27		1.67	
	680	22*46	1.82	
		25*25	1.75	
		25*36	1.82	
		30*31	1.82	
		35*27	1.82	
	820	22*36	1.70	
		22*36	2.00	
		25*30	2.00	
		25*41	2.05	
		30*30	2.05	
		30*36	2.05	
	1000	35*32	2.05	
		22*40	2.34	
		22*50	2.41	
		25*35	2.36	
		25*45	2.40	
		25*50	2.25	
		30*25	2.06	
		30*35	2.20	
		30*40	2.25	
		35*32	2.25	
	1200	22*45	2.61	
		25*35	2.61	
		30*30	2.65	
		30*46	2.66	
35*37		2.66		

Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current
V	μ F	mm	A
160V	1500	25*40	2.84
		30*35	2.84
		30*50	2.85
		35*30	2.84
		35*42	2.90
		25*50	3.25
	1800	30*35	3.20
		30*50	3.30
		35*30	3.20
		35*40	3.25
		30*45	3.26
		30*50	3.26
	2200	35*35	3.25
		35*42	3.32
		30*50	3.67
	2700	35*40	3.67
		3300	3.70
	200V	150	35*50
22*25			0.72
220		25*25	0.72
		22*25	0.96
		22*30	0.96
		25*25	1.14
270		30*25	1.14
		22*25	0.98
		22*30	1.20
		25*25	1.20
330		30*25	1.20
		22*25	1.15
	22*30	1.22	
	25*25	1.23	
	25*30	1.34	
	30*25	1.34	
390	22*35	1.37	
	25*30	1.45	
470	22*35	1.60	
	25*30	1.58	
	25*35	1.65	
	30*25	1.60	
	30*30	1.65	
35*25	1.65		

Rated ripple current (A,rms) at 105°C, 120Hz

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### Standard Ratings

Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current	
V	μ F	mm	A	
200V	560	22*35	1.71	
		22*45	1.81	
		25*30	1.71	
		25*40	1.85	
		30*25	1.71	
		30*30	1.80	
		35*25	1.80	
	680	680	22*40	2.00
			25*30	1.95
			25*35	2.15
			30*30	2.15
	820	820	35*25	2.15
			22*40	2.13
			22*45	2.25
			25*40	2.40
			30*30	2.30
	1000	1000	30*35	2.40
			35*30	2.40
			22*40	2.43
			22*50	2.45
			25*40	2.44
			30*30	2.40
			30*35	2.50
	1200	1200	30*40	2.5
			35*30	2.50
			25*45	2.65
			25*50	2.75
			30*35	2.60
	1500	1500	30*40	2.75
			30*50	2.85
			35*30	2.60
			25*50	2.90
	1800	1800	30*40	2.90
			35*40	3.10
			30*50	3.20
	2200	2200	35*40	3.30
35*50			3.40	
30*50			3.50	
2700	2700	35*50	3.60	
		35*45	3.81	
		35*50	3.83	

Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current	
V	μ F	mm	A	
250	68	22*31	0.39	
		25*26	0.39	
		30*26	0.39	
	100	100	22*36	0.55
			25*31	0.55
			30*25	0.55
			22*25	0.53
			25*25	0.53
	120	120	22*36	0.75
			25*31	0.75
			30*26	0.75
			22*25	0.73
	150	150	25*25	0.73
			22*25	0.80
			22*31	0.98
			25*26	0.95
	220	220	30*26	0.95
			22*36	1.10
			25*31	1.10
			30*26	1.10
	270	270	22*25	0.98
			25*25	0.98
			22*25	1.19
			22*30	1.19
			22*40	1.20
			25*36	1.20
	330	330	25*40	1.20
			30*30	1.20
			22*35	1.30
			22*45	1.32
			25*25	1.30
			25*36	1.32
	470	470	30*25	1.30
			30*30	1.32
			35*25	1.45
			22*35	1.60
22*40			1.75	
25*35			1.72	
25*30			1.70	
25*40			1.80	
30*25			1.72	
30*30			1.79	
		35*25	1.75	

Rated ripple current (A,rms) at 105°C, 120Hz

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Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current
V	μ F	mm	A
250	680	22*45	2.20
		25*40	2.20
		30*35	2.20
		30*45	2.30
		35*30	2.30
		35*35	2.30
	820	25*45	2.58
		30*35	2.58
		30*40	2.58
		30*50	2.60
		35*30	2.60
		35*40	2.60
	1000	25*50	2.90
		30*40	2.90
		30*45	2.90
		30*50	2.90
		35*50	2.90
	1200	30*45	3.30
		30*50	3.30
		35*50	3.30
	1500	30*50	3.90
		35*50	4.10
	1800	35*45	4.40
		35*50	4.60
35*55		4.90	
2200	35*50	5.00	
	35*60	5.20	
	35*70	5.30	
400	68	22*30	0.75
		25*26	0.75
		30*26	0.75
	100	22*25	0.75
		22*36	0.86
		25*25	0.76
		25*30	0.86
		30*25	0.86
		30*25	0.86
	120	22*25	0.80
		22*30	0.85
		22*36	0.93
		25*25	0.85
		25*30	0.85
		25*30	0.85

Rated Voltage	Rated Capacity	Size φ D*L	Rated ripple current
V	μ F	mm	A
400	150	22*30	0.89
		22*40	0.99
		25*25	0.95
		25*30	0.95
		25*35	0.99
		30*25	0.99
		30*30	0.96
		30*30	0.96
	180	22*35	1.10
		25*30	1.10
		30*25	1.10
	220	22*40	1.15
		25*30	1.18
		25*35	1.20
		25*40	1.25
		25*45	1.28
		30*25	1.20
		30*30	1.20
		30*35	1.20
	270	25*35	1.30
		30*30	1.30
		30*40	1.30
	330	22*45	1.48
		25*40	1.49
		25*50	1.51
		30*35	1.50
		30*40	1.50
		30*50	1.55
		35*30	1.55
		35*35	1.55
		35*40	1.60
		35*40	1.60
	470	25*50	1.89
		30*40	1.95
		30*45	1.95
		30*50	1.95
		35*40	1.95
		35*45	1.96
	560	35*50	1.96
		30*45	2.20
		30*50	2.25
		35*40	2.30
35*45		2.30	
35*50		2.30	

Rated ripple current (A,rms) at 105°C, 120Hz

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### Standard Ratings

Rated Voltage	Rated Capacity	Size Φ D*L	Rated ripple current
V	μ F	mm	A
400	680	30*50	2.75
		30*55	2.75
		35*45	2.75
		35*50	2.80
		35*55	2.80
		35*60	2.82
	820	35*45	2.90
		35*50	2.93
		35*60	2.97
	1000	35*60	2.98
		35*70	2.98
	1200	35*70	3.30
40*60		3.30	
450	68	22*36	0.56
		25*30	0.56
		30*25	0.56
	82	22*36	0.67
		25*30	0.67
		25*25	0.67
		30*25	0.67
	100	22*30	0.75
		22*35	0.75
		22*40	0.75
		25*30	0.82
		30*25	0.82
	120	22*30	0.83
		22*35	0.83
		25*30	0.85
		30*25	0.85
	150	22*35	0.93
		25*30	0.93
		25*35	0.96
		30*25	0.93
		30*30	0.96
	220	22*45	1.20
		22*50	1.25
		25*40	1.25
		25*50	1.25
		30*30	1.2
		30*40	1.25
35*30	1.25		

Rated Voltage	Rated Capacity	Size Φ D*L	Rated ripple current
V	μ F	mm	A
450	270	22*50	1.32
		25*40	1.32
		30*30	1.29
		30*35	1.42
		30*40	1.49
		30*50	1.49
		30*50	1.49
	330	30*40	1.69
		30*50	1.70
		35*35	1.70
		35*40	1.87
	390	30*40	1.71
		30*50	1.85
		35*40	1.80
		35*50	1.95
	470	30*50	2.23
		35*50	2.30
	560	30*50	2.45
		35*50	2.70
	680	35*50	2.98
		35*55	2.98
	820	35*60	3.01
		35*60	3.50
		35*65	3.50
	1000	35*65	3.50
		35*70	3.50
		40*60	3.70
1200	35*65	3.60	
	35*70	3.60	
1200	40*60	3.70	
	35*80	3.80	
40*70	3.80		

Rated ripple current (A,rms) at 105°C, 120Hz

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