

Aluminum Electrolytic Capacitor

KS series

KFSON

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

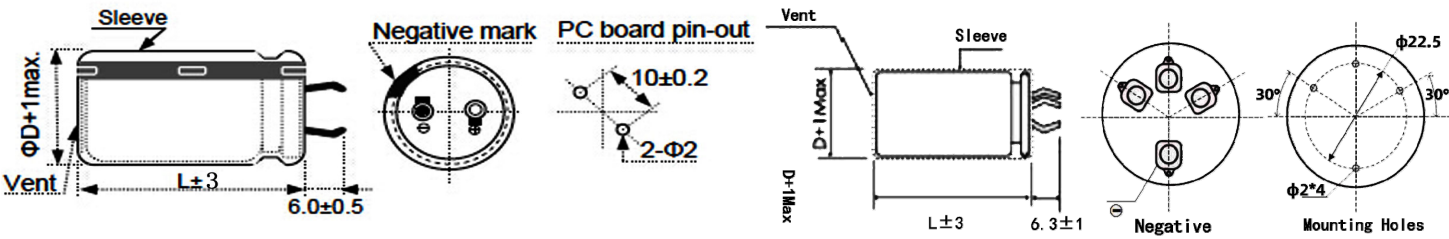


Specifications 規格表

Ltem 項目	Performance Characteristics 特性參數											
Operating Temperature Range 工作溫度範圍	-25 to +105℃											
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℃）											
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 tanδ (%)	<table><tr><td>rated voltage (V)</td><td>160-400</td><td>450</td></tr><tr><td>tan δ (Max)</td><td>15</td><td>20</td></tr></table>			rated voltage (V)	160-400	450	tan δ (Max)	15	20			
rated voltage (V)	160-400	450										
tan δ (Max)	15	20										
Low Temperature Characteristics 低溫特性	<table><tr><td>impedance ratio max 電容器最大阻抗比值</td><td colspan="2"></td></tr><tr><td>rated voltage (V)</td><td>160-400</td><td>450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>4</td><td>8</td></tr></table>			impedance ratio max 電容器最大阻抗比值			rated voltage (V)	160-400	450	Z(-25℃)/Z(+20℃)	4	8
impedance ratio max 電容器最大阻抗比值												
rated voltage (V)	160-400	450										
Z(-25℃)/Z(+20℃)	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℃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℃ 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℃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℃ after exposing them for 1000 hours at 105℃ 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 φD*L	Rated ripple current
V	μF	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
	470	22*25	1.41
		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
		22*36	1.70
	820	22*36	2.00
		25*30	2.00
		25*41	2.05
		30*30	2.05
		30*36	2.05
		35*32	2.05

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

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
160V	1000	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
	1500	35*37	2.66
		25*40	2.84
		30*35	2.84
		30*50	2.85
		35*30	2.84
	1800	35*42	2.90
		25*50	3.25
		30*35	3.20
		30*50	3.30
		35*30	3.20
		35*40	3.25
	2200	30*45	3.26
		30*50	3.26
		35*35	3.25
		35*42	3.32
	2700	30*50	3.67
		35*40	3.67
	3300	35*45	3.70
		35*50	3.75

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Standard Ratings

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
200V	150	22*25	0.72
		25*25	0.72
	220	22*25	0.96
		22*30	0.96
		25*25	1.14
		30*25	1.14
	270	22*25	0.98
		22*30	1.20
		25*25	1.20
		30*25	1.20
	330	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
	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

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

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
200V	680	22*40	2.00
		25*30	1.95
		25*35	2.15
		30*30	2.15
		35*25	2.15
	820	22*40	2.13
		22*45	2.25
		25*40	2.40
		30*30	2.30
		30*35	2.40
		35*30	2.40
	1000	22*40	2.43
		22*50	2.45
		25*40	2.44
		30*30	2.40
		30*35	2.50
		30*40	2.5
		35*30	2.50
	1200	25*45	2.65
		25*50	2.75
		30*35	2.60
		30*40	2.75
		30*50	2.85
		35*30	2.60
	1500	25*50	2.90
		30*40	2.90
		35*40	3.10
	1800	30*50	3.20
		35*40	3.30
		35*50	3.40
	2200	35*50	3.60

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Standard Ratings

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
250V	120	22*36	0.75
		25*31	0.75
		22*25	0.73
		25*25	0.73
	150	22*25	0.80
		22*31	0.98
		25*26	0.95
	220	22*36	1.10
		25*31	1.10
		22*25	0.98
		25*25	0.98
	270	22*25	1.19
		22*30	1.19
		22*40	1.20
		25*36	1.20
		25*40	1.20
		30*30	1.20
	330	22*35	1.30
		22*45	1.32
		25*25	1.30
		25*36	1.32
		30*25	1.30
		30*30	1.32
		35*25	1.45
	470	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 Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
250V	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
		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
	2200	35*55	4.90
		35*50	5.00
		35*60	5.20
		35*70	5.30

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

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Standard Ratings

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
400V	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
	120	22*25	0.80
		22*30	0.85
		22*36	0.93
		25*25	0.85
		25*30	0.85
	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
	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
		35*30	1.20

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
400V	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
	470	35*40	1.60
		25*50	1.89
		30*40	1.95
		30*45	1.95
		30*50	1.95
		35*40	1.95
		35*45	1.96
		35*50	1.96
	560	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℃, 120Hz

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Standard Ratings

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
400V	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
450V	100	22*30	0.75
		22*35	0.75
		22*40	0.75
		25*30	0.82
	120	22*30	0.83
		22*35	0.83
		25*30	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 φD*L	Rated ripple current
V	μF	mm	A
450V	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
	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
		35*40	2.20
	560	30*50	2.45
		35*50	2.70
	680	35*50	2.98
		35*55	2.98
		35*60	3.01
	820	35*60	3.50
		35*65	3.50
		35*70	3.50
	1000	35*65	3.60
		35*70	3.60
		40*60	3.70
	1200	35*80	3.80
		40*70	3.80

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