

Aluminum Electrolytic Capacitor

KN series

KFSON

- ◆ Load life 2000 Hrs at 105°C
- ◆ RoHS Compliant

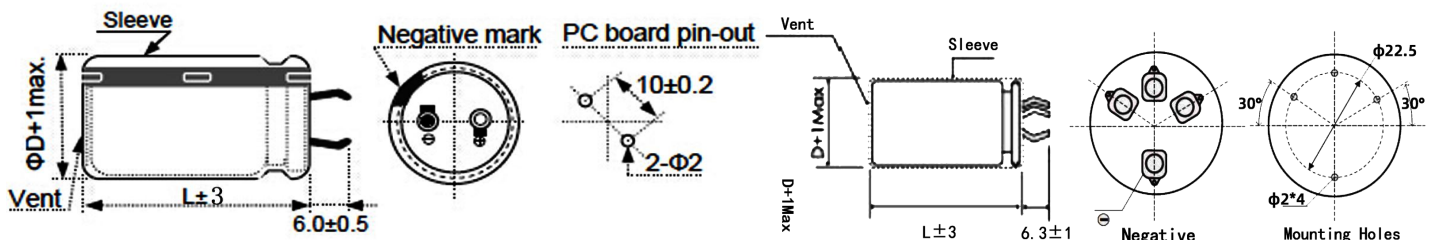


Specifications 規格表

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	16 to 100 VDC	160 to 500 VDC
Capacitance Range 容量範圍	68 to 56000 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)	16 25 35 50 63 100 160-400 450-500
	tan δ (Max)	50 40 40 30 20 20 15 20
Low Temperature Characteristics 低溫特性	impedance ratio max 電容器最大阻抗比值	
	rated voltage (V)	16 25 35 50 63 100 160-400 450-500
	Z(-25°C)/Z(+20°C)	4 4 4 4 4 4 4 8
	Z(-40°C)/Z(+20°C)	15 15 15 15 15 15 - -
Load Life 使用壽命	105°C施加額定工作電壓2000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 subjected to DC voltage with the rated ripple current is applied for 2000H at 105°C	
	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，經恢復後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 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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Frequency Coefficient

Frequency Voltage (v)	50/60 Hz	120 Hz	300 Hz	1K Hz	10K Hz	≥50K Hz
≤100V	0.95	1.00	1.07	1.13	1.19	1.20
160-250V	0.87	1.00	1.17	1.32	1.45	1.50
≥350	0.80	1.00	1.16	1.30	1.41	1.43

Standard Ratings

Rated Voltage V	Rated Capacity μF	Size ΦD*L mm	Rated ripple current A
16V	3300	22*26	1.17
	4700	22*26	1.53
		25*26	1.55
	6800	22*31	2.02
		25*26	2.02
	8200	30*26	2.02
		22*31	2.20
	10000	22*31	2.79
		25*26	2.79
		30*26	2.81
	12000	22*36	3.06
		30*26	3.06
	15000	22*41	3.24
		25*36	3.24
		30*26	3.24
		35*32	3.24
	18000	22*51	3.54
		25*46	3.51
		30*36	3.51
		35*32	3.54
	22000	25*51	4.25
		30*36	4.08
		35*32	4.08
	27000	25*51	4.30
30*41		4.30	
35*32		4.30	
33000	30*46	4.83	
	35*37	4.83	
39000	30*51	5.78	
	35*42	5.78	
47000	35*45	6.32	
56000	35*47	6.48	

Rated Voltage V	Rated Capacity μF	Size ΦD*L mm	Rated ripple current A
25V	3300	22*26	1.48
		25*26	1.48
	4700	22*26	1.88
		25*26	1.90
	6800	22*31	2.60
		25*26	2.60
		30*26	2.60
	8200	22*36	3.14
		25*31	3.14
		30*26	3.14
	10000	22*41	3.50
		25*36	3.50
		30*31	3.50
		35*27	3.50
	12000	22*46	4.02
		25*41	4.02
		30*31	4.02
	15000	35*27	4.02
		25*46	4.58
		30*36	4.58
	18000	35*32	4.58
		25*51	4.82
		30*41	4.82
	22000	35*32	4.79
30*46		5.12	
35*37		5.12	
27000	35*42	5.30	
33000	35*52	6.09	
39000	35*52	6.20	
47000	35*52	6.30	

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
35V	1500	22*26	1.26
	2200	22*26	1.35
		25*26	1.45
	2700	22*26	1.55
		25*26	1.65
	3300	22*26	1.80
		25*26	1.90
	4700	22*36	2.42
		25*26	2.30
		30*26	2.54
	6800	22*41	3.24
		25*36	3.24
		30*26	3.21
		35*27	3.24
	10000	25*46	3.96
		30*36	3.96
		35*27	3.75
	12000	25*51	4.21
		30*41	4.21
		35*32	4.21
15000	30*46	4.69	
	35*37	4.69	
22000	35*52	5.50	
27000	35*52	5.80	
	35*45	5.60	
33000	35*52	5.90	

Rated Voltage	Rated Capacity	Size φD*L	Rated ripple current
V	μF	mm	A
50V	1500	22*26	1.10
		25*26	1.02
	2200	22*31	1.65
		25*26	1.65
	2700	22*31	1.85
		25*26	1.85
		30*26	1.95
	3300	22*36	2.24
		25*31	2.24
		30*26	2.24
		22*46	2.95
	4700	25*36	2.80
		30*31	2.95
		35*27	2.95
		25*46	3.23
	6800	30*41	3.20
		35*32	3.26
		30*46	3.58
	8200	35*37	3.58
		30*51	4.11
10000	30*45	4.01	
	35*42	4.11	
	30*40	4.00	
	25*50	3.90	
	35*30	3.86	
15000	35*52	5.05	
18000	35*52	5.30	
22000	35*60	5.50	

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
63V	820	22*26	0.75
	1000	22*26	0.85
		25*26	0.85
	1500	22*26	1.10
		25*26	1.12
		30*26	1.14
	1800	22*31	1.40
		25*26	1.40
	2200	22*36	1.65
		25*31	1.65
		30*26	1.65
	2700	22*41	2.07
		25*36	2.07
		30*26	2.07
	3300	22*46	2.46
		25*36	2.40
		30*31	2.48
		35*27	2.48
	3900	25*41	2.92
		30*36	3.05
		35*27	3.05
	4700	25*51	3.43
		30*41	3.43
		35*32	3.43
	5600	30*46	3.86
		35*37	3.86
	6800	30*51	4.64
35*42		4.64	
8200	35*47	5.05	
10000	35*52	5.75	
	30*60	5.65	
	30*50	5.35	
15000	35*52	5.40	
	35*60	5.56	

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
100V	330	22*26	0.54
	470	22*26	0.79
		25*26	0.81
	560	22*26	0.90
		25*26	0.95
	680	22*31	1.02
		25*26	1.02
		30*26	1.14
	820	22*31	1.26
		25*26	1.26
		30*26	1.32
	1000	22*36	1.38
		25*31	1.38
		30*26	1.38
	1200	22*41	1.65
		25*36	1.65
		30*31	1.65
	1500	22*46	1.83
		25*41	1.83
		30*31	1.83
	1800	25*41	1.83
		30*36	1.83
		35*27	1.83
	2200	25*41	2.52
		30*36	2.52
		35*32	2.52
	2700	25*51	3.03
		30*41	3.03
		35*32	3.03
	3300	30*46	4.10
		35*37	4.10
		30*56	4.59
3900	35*47	4.59	
	35*47	4.98	
4700	35*52	5.03	
	35*40	4.80	
	30*50	4.65	
5600	35*60	5.10	
5600	35*52	5.09	
6800	35*60	5.20	

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	Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current	
V	μF	mm	A	V	μF	mm	A	
160V	220	22*26	0.42	200V	470	22*41	1.57	
	330	22*31	0.98			25*36	1.59	
		25*26	0.98			30*31	1.65	
		30*26	1.00			35*27	1.65	
	470	22*36	1.21			22*30	1.55	
		25*31	1.21			22*36	1.65	
		30*26	1.21			25*30	1.65	
		22*31	1.15		560	22*46	1.81	
	560	22*41	1.40			25*41	1.85	
		25*36	1.40			30*31	1.85	
		30*31	1.40			35*27	1.85	
		35*27	1.40		680	22*51	2.04	
	680	22*46	1.64			25*46	2.07	
		25*36	1.58			30*30	2.04	
		30*31	1.65			35*32	2.17	
		35*27	1.71			25*35	2.00	
	820	22*36	1.49			25*30	1.98	
		820	25*41		1.76	22*40	2.00	
			30*36		1.85	820	25*51	2.30
	35*32		1.85		30*35		2.30	
	1000	25*51	2.15		35*37		2.31	
		30*41	2.15		25*40		2.20	
		35*32	2.15		25*45		2.25	
	1200	25*56	2.46		22*50		2.20	
		1200	30*46		2.46	1000	30*40	2.62
			35*37		2.46		35*37	2.62
	1500	30*51	2.80		25*45		2.55	
		35*42	2.80		25*40		2.51	
	1800	30*51	3.13		35*30		2.50	
		35*42	3.13		25*50		2.55	
	2200	35*52	3.26		30*30	2.45		
		35*42	3.18		30*35	2.51		
3300	35*52	3.50	1200	30*50	3.00			
	35*45	3.35	1500	35*42	3.00			
200V	330	22*36	1.21	1800	35*50	4.01		
		25*31	1.21	2200	35*50	4.10		
		30*26	1.21		30*50	3.85		
	390	22*36	1.33	2700	35*50	4.10		
		25*31	1.34		35*45	3.80		
		30*31	1.45					

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Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
250V	220	22*36	1.00
		25*31	1.00
		22*30	0.95
	330	22*46	1.28
		25*36	1.28
		30*31	1.28
	390	35*27	1.28
		22*46	1.48
		30*31	1.48
	470	35*27	1.48
		25*41	1.76
		30*36	1.76
	560	35*32	1.76
		25*30	1.56
		25*35	1.60
		22*36	1.56
	680	30*30	1.68
		22*40	1.68
		25*51	1.93
		30*41	1.93
	820	35*32	1.93
		25*40	2.15
		30*46	2.22
	1000	35*37	2.22
		30*51	2.48
		22*45	2.15
		30*35	2.20
	1200	25*45	2.46
		30*35	2.43
		30*51	2.48
		35*42	2.48
	1500	25*40	2.20
		35*30	2.25
		30*50	2.74
	2200	30*40	2.65
		35*47	2.80
		30*45	2.70

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
400V	100	22*36	0.82
		25*31	0.82
		22*25	0.70
		25*25	0.80
	120	22*36	0.90
		25*31	0.90
		22*25	0.80
		25*25	0.85
	150	22*41	0.98
		25*36	0.98
		30*31	0.95
		35*27	0.95
	180	22*30	0.90
		25*25	0.90
		25*36	1.05
		30*30	1.21
	220	30*41	1.21
		25*40	1.21
		25*35	1.21
		35*32	1.21
		22*40	1.10
		25*30	1.10
	270	30*25	1.10
		30*40	1.40
		25*40	1.30
	330	30*35	1.30
		30*40	1.57
		35*30	1.57
		22*45	1.50
		25*40	1.50
		30*35	1.50
	390	35*35	1.60
		30*30	1.50
		30*40	1.68
		35*42	1.71
	470	35*45	1.94
		25*50	1.80
		30*40	1.80
		35*35	1.80
		30*50	1.85
		30*45	1.85
	470	35*40	1.85
35*50		1.98	

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Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current	Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A	V	μF	mm	A
400V	560	35*50	2.23	450V	180	25*46	1.14
		30*45	2.23			30*36	1.10
		35*45	2.40			35*32	1.14
		35*40	2.40		220	25*35	1.20
	680	35*62	2.85			30*41	1.24
		35*50	2.83			35*37	1.24
		35*45	2.80			22*40	1.20
		30*50	2.70			25*40	1.20
	820	35*40	2.65			25*50	1.20
		1000	35*62		2.90	30*30	1.20
			35*45		2.83	270	30*51
	1200	35*50	2.85		35*42		1.48
		35*70	3.20		330	30*40	1.60
			35*65			3.15	30*50
		35*60	3.15			25*50	1.60
	35*50		3.10			30*35	1.60
	35*70	3.30	35*30			1.60	
		35*65	3.30			35*45	1.70
			35*60		3.30	30*30	1.60
	450V	82	22*36		0.64	450V	390
25*31			0.64	35*52	1.86		
30*26			0.64	35*35	1.65		
100		22*41	0.74	470	35*50		1.90
		25*31	0.74		35*45		1.90
		30*31	0.74		30*50		1.90
		22*25	0.70		30*60		1.90
		22*35	0.72	560	35*50		2.40
		25*25	0.72		35*45		2.40
22*46		0.82	35*40		2.40		
120		25*36	0.82	680	30*50		2.40
		30*31	0.82		35*60		2.90
		22*30	0.80		35*55		2.85
		25*25	0.80		35*50		2.85
		25*30	0.80		35*45		2.80
		30*25	0.80		30*55		2.80
		150	22*51	0.96	820		35*70
25*41			0.96	35*65			3.20
30*36			0.96	35*60			3.20
35*27			0.96	35*55			3.10
22*30			0.90	35*56		3.10	
22*35			0.90	1000	35*70	3.30	
25*30			0.90		35*65	3.30	
25*35			0.95	1200	35*80	3.60	
30*25			0.95				
30*30		0.95					

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Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
500V	100	22*40	0.90
		22*45	0.94
		25*40	0.94
		30*30	0.94
	120	25*40	0.94
		30*30	0.94
		35*25	0.94
	150	25*40	1.10
		30*35	1.13
		35*30	1.13
	180	25*50	1.39
		30*40	1.40
	220	30*40	1.50
		30*45	1.60
		35*35	1.60
		35*40	1.60
	270	30*50	1.70
		35*40	1.70
	330	30*55	2.10
		30*60	2.10
		35*50	2.10
	390	35*55	2.50
		35*50	2.47
	470	35*55	2.60
		35*60	2.65
	680	35*70	3.10
		35*60	2.90
	820	35*80	3.80
40*70		3.80	
1000	40*80	4.70	

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