

# KN series

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

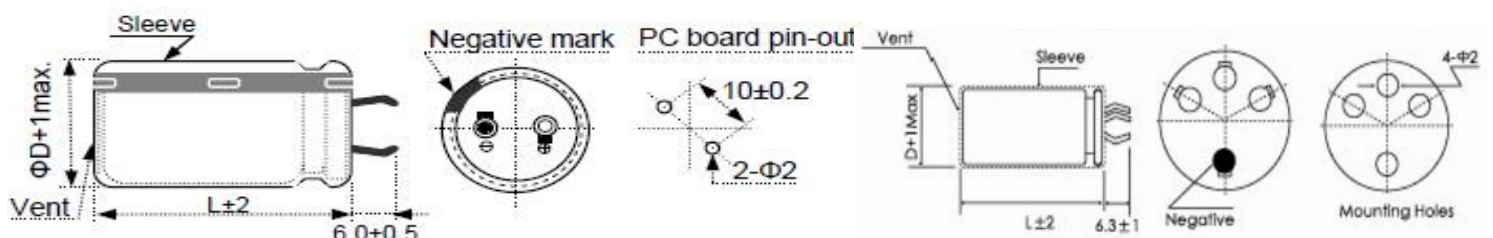


## Specifications 規格表

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 450 VDC
Capacitance Range 容量範圍	33 to 56000 $\mu$ F	
Capacitance Tolerance 靜電容量偏差	$\pm 20\%$ (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( $\mu$ F) V: Rated Voltage(V)	
Dissipation Factor 損耗角正切值 $\tan \delta$ (%)	rated voltage (V)	16 25 35 50 63 100 160-400 450
	$\tan \delta$ (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
	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	$\cong \pm 20\%$ of the initial value
	D. F. ( $\tan \delta$ )	$\cong 200\%$ of the specified value
	Leakage current	$\cong$ 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	$\cong \pm 20\%$ of the initial value
	D. F. ( $\tan \delta$ )	$\cong 150\%$ of the specified value
	Leakage current	$\cong$ The specified value

## Diagram of Dimensions 外形尺寸圖 (mm)

### ● Standard Terminal Type : S ( $\Phi 22 \sim \Phi 35$ )



## KN series

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

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current	
V	μF	mm	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	12000	22*41	3.50
			25*36	3.50
			30*31	3.50
		15000	35*27	3.50
	22*46		4.02	
	25*41		4.02	
	18000	30*31	30*31	4.02
			35*27	4.02
		25*46	4.58	
	22000	30*36	30*36	4.58
			35*32	4.58
		25*51	4.82	
	27000	30*41	30*41	4.82
			35*32	4.79
		30*46	5.12	
	33000	35*37	35*37	5.12
			27000	35*42
	39000	35*52	6.09	
47000		35*52	6.20	
		35*52	6.30	

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

## KN series

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

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
	4700	22*46	2.95
		25*36	2.80
		30*31	2.95
		35*27	2.95
	6800	25*46	3.23
		30*41	3.20
		35*32	3.26
	8200	30*46	3.58
		35*37	3.58
	10000	30*51	4.11
		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

## KN series

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

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	35*27	1.83
		25*41	2.52
		30*36	2.52
	2200	35*32	2.52
		25*51	3.03
		30*41	3.03
	2700	35*32	3.03
		30*46	4.10
		35*37	4.10
	3300	30*56	4.59
35*47		4.59	
3900	35*47	4.98	
4700	35*52	5.03	
	35*40	4.80	
5600	30*50	4.65	
	35*60	5.10	
5600	35*52	5.09	
6800	35*60	5.20	

## KN series

## Standard Ratings

Rated Voltage	Rated Capacity	Size $\Phi$ D*L	Rated ripple current
V	$\mu$ F	mm	A
160V	220	22*26	0.42
	330	22*31	0.98
		25*26	0.98
		30*26	1.00
	470	22*36	1.21
		25*31	1.21
		30*26	1.21
	560	22*31	1.15
		22*41	1.40
		25*36	1.40
		30*31	1.40
	680	35*27	1.40
		22*46	1.64
		25*36	1.58
		30*31	1.65
	820	35*27	1.71
		22*36	1.49
		25*41	1.76
	1000	30*36	1.85
		35*32	1.85
		25*51	2.15
	1200	30*41	2.15
		35*32	2.15
		25*56	2.46
	1500	30*46	2.46
		35*37	2.46
	1800	30*51	2.80
		35*42	2.80
	2200	30*51	3.13
		35*42	3.13
	3300	35*52	3.26
		35*42	3.18
			35*52
		35*45	3.35

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

Rated Voltage	Rated Capacity	Size $\Phi$ D*L	Rated ripple current
V	$\mu$ F	mm	A
200V	150	22*26	0.54
		25*26	0.54
	220	22*31	0.92
		25*26	0.92
		30*26	0.92
	270	22*31	1.03
		25*26	1.03
		30*26	1.05
	330	22*36	1.21
		25*31	1.21
		30*26	1.21
	390	22*36	1.33
		25*31	1.34
		30*31	1.45
	470	22*41	1.57
		25*36	1.59
		30*31	1.65
		35*27	1.65
	560	22*30	1.55
		22*46	1.81
		25*41	1.85
	680	30*31	1.85
		35*27	1.85
		22*51	2.04
	820	25*46	2.07
		30*31	2.04
		35*32	2.17
	1000	25*51	2.30
		30*36	2.30
		35*37	2.31
	1200	30*41	2.62
		35*37	2.62
		22*40	2.40
		25*40	2.51
	1500	30*30	2.45
		30*51	3.00
	1800	35*42	3.00
		35*47	3.28
	2200	35*52	4.01
		35*52	4.10
	2700	30*50	3.85
		35*52	4.10
		35*45	3.80

## KN series

## Standard Ratings

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
250V	68	22*26	0.27
		22*31	0.44
	100	25*26	0.44
		22*25	0.42
	120	22*31	0.50
		25*26	0.50
	150	22*31	0.60
		25*26	0.60
		30*26	0.60
	220	22*36	1.00
		25*31	1.00
		30*26	1.00
		22*30	0.95
	270	22*41	1.16
		25*36	1.16
		30*31	1.16
	330	22*46	1.28
		25*36	1.28
		30*31	1.28
		35*27	1.28
	390	22*46	1.48
		22*46	1.48
		30*31	1.48
		35*27	1.48
	470	25*41	1.76
		30*36	1.76
		35*32	1.76
		25*30	1.56
		22*40	1.68
	560	25*51	1.93
		30*41	1.93
		35*32	1.93
	680	25*40	2.15
		30*46	2.22
		35*37	2.22
		30*51	2.48
		22*45	2.15
	820	25*45	2.46
		30*35	2.43
		30*51	2.48
		35*42	2.48
	1000	25*50	2.74
30*40		2.65	
35*47		2.80	

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
400V	68	22*31	0.72
		25*26	0.72
		30*26	0.72
	100	22*36	0.82
		25*31	0.82
		30*26	0.82
		22*25	0.70
	120	25*25	0.80
		22*36	0.90
		25*31	0.90
	150	30*26	0.90
		22*25	0.80
		25*25	0.85
		22*41	0.98
		25*36	0.98
	180	30*31	0.95
		35*27	0.95
		22*30	0.90
		25*25	0.90
	220	25*36	1.05
		25*46	1.21
		30*41	1.21
		35*32	1.21
		22*40	1.10
		25*30	1.10
		30*25	1.10
	270	30*46	1.40
		35*37	1.40
		25*35	1.30
		30*30	1.30
	330	30*51	1.57
		35*42	1.57
		22*45	1.50
		25*40	1.50
	390	30*35	1.50
		35*42	1.71
		35*47	1.94
	470	25*50	1.80
		30*40	1.80
		35*35	1.80
		30*50	1.85
		30*45	1.85
35*40		1.85	

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

## KN series

## Standard Ratings

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current	
V	μF	mm	A	
400V	560	35*52	2.23	
		30*45	2.23	
		35*40	2.40	
	680	680	35*62	2.85
			35*50	2.83
			35*45	2.80
			30*50	2.70
	820	820	35*62	2.90
			35*45	2.83
			35*50	2.85
	1000	1000	35*70	3.20
			35*65	3.15
			35*60	3.15
			35*50	3.10
	1200	1200	35*70	3.30
			35*65	3.30
35*60			3.30	
450V	33	22*26	0.24	
	47	22*31	0.35	
		25*26	0.35	
	56	22*31	0.41	
		25*26	0.41	
	68	22*36	0.55	
		25*31	0.55	
		30*26	0.55	
	82	22*36	0.64	
		25*31	0.64	
		30*26	0.64	
	100	100	22*41	0.74
			25*31	0.74
			30*31	0.74
			22*25	0.70
			22*35	0.72
			25*25	0.72
	120	120	22*46	0.82
			25*36	0.82
			30*31	0.82
22*30			0.8	
25*25			0.8	
25*30			0.80	
30*25			0.80	

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current		
V	μF	mm	A		
450V	150	22*51	0.96		
		25*41	0.96		
		30*36	0.96		
		35*27	0.96		
		22*30	0.90		
		22*35	0.90		
		25*30	0.90		
		25*35	0.95		
		30*25	0.95		
		30*30	0.95		
		180	180	25*46	1.14
				30*36	1.10
				35*32	1.14
	220	220	30*41	1.24	
			35*37	1.24	
			22*40	1.20	
			25*35	1.20	
			30*30	1.20	
	270	270	30*51	1.48	
			35*42	1.48	
	330	330	35*47	1.64	
			25*50	1.60	
			30*35	1.60	
	390	390	35*30	1.60	
			390	35*52	1.86
			35*52	1.90	
	470	470	30*50	1.90	
			30*60	1.90	
			35*50	2.40	
	560	560	35*45	2.40	
			35*40	2.40	
			30*50	2.40	
			35*60	2.90	
	680	680	35*50	2.85	
			35*45	2.80	
			30*55	2.80	
	820	820	35*70	3.20	
			35*65	3.20	
			35*60	3.20	
	1000	1000	35*70	3.30	
35*65			3.30		
1200	35*80	3.60			

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

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