

KS series

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

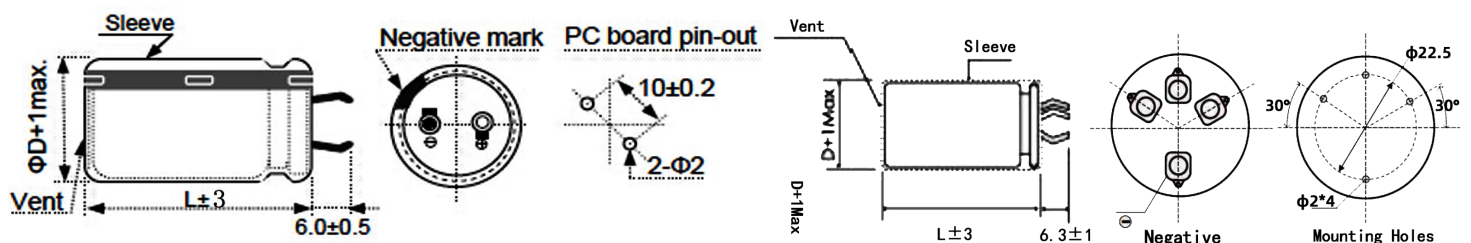


Specifications 規格表

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	$I \leq 3$ (uA) After 5 minute with rated working voltage applied C: Nominal Capacitance(µF) V: Rated Voltage(V)						
Dissipation Factor 損耗角正切值 tan δ (%)	<table border="1"> <tr> <td>rated voltage (V)</td> <td>160-400</td> <td>420-450</td> </tr> <tr> <td>tan δ (Max)</td> <td>15</td> <td>20</td> </tr> </table>	rated voltage (V)	160-400	420-450	tan δ (Max)	15	20
	rated voltage (V)	160-400	420-450				
tan δ (Max)	15	20					
Low Temperature Characteristics 低溫特性	impedance ratio max 電容器最大阻抗比值 <table border="1"> <tr> <td>rated voltage (V)</td> <td>160-400</td> <td>450</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>8</td> </tr> </table>	rated voltage (V)	160-400	450	Z(-25°C)/Z(+20°C)	4	8
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					
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)



KS series

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
	680	35*27	1.67
		22*46	1.82
		25*25	1.75
		25*36	1.82
	820	30*31	1.82
		35*27	1.82
		22*36	1.70
		22*36	2.00
	1000	25*30	2.00
		25*41	2.05
		30*30	2.05
		30*36	2.05
		35*32	2.05
	1200	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
	1200	35*32	2.25
		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 ΦD*L	Rated ripple current	
V	μF	mm	A	
160V	1500	25*40	2.84	
		30*35	2.84	
		30*50	2.85	
		35*30	2.84	
		35*42	2.90	
	1800	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	
	2700	35*42	3.32	
		30*50	3.67	
	3300	35*40	3.67	
		35*45	3.70	
	200V	150	35*50	3.75
			22*25	0.72
220		25*25	0.72	
		22*25	0.96	
270		22*30	0.96	
		25*25	1.14	
		30*25	1.14	
330		22*25	0.98	
		22*30	1.20	
		25*25	1.20	
		30*25	1.20	
		22*25	1.15	
390		22*30	1.22	
		25*25	1.23	
		25*30	1.34	
470		30*25	1.34	
		22*35	1.37	
		25*30	1.45	
		22*35	1.60	
	25*30	1.58		
470	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

KS series

Standard Ratings

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	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	22*40	2.00
		25*30	1.95
		25*35	2.15
		30*30	2.15
	820	35*25	2.15
		22*40	2.13
		22*45	2.25
		25*40	2.40
		30*30	2.30
	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	30*40	2.5
		35*30	2.50
		25*45	2.65
		25*50	2.75
		30*35	2.60
	1500	30*40	2.75
		30*50	2.85
		35*30	2.60
	1800	25*50	2.90
		30*40	2.90
		35*40	3.10
	2200	30*50	3.20
		35*40	3.30
	2700	35*50	3.40
		30*50	3.50
	2700	35*50	3.60
		35*45	3.81
	2700	35*50	3.83

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
250	68	22*31	0.39
		25*26	0.39
		30*26	0.39
	100	22*36	0.55
		25*31	0.55
		30*25	0.55
		22*25	0.53
	120	25*25	0.53
		22*36	0.75
		25*31	0.75
		30*26	0.75
	150	22*25	0.73
		25*25	0.73
		22*36	0.80
		22*31	0.98
	220	25*26	0.95
		30*26	0.95
		22*36	1.10
		25*31	1.10
	270	30*26	1.10
		22*25	0.98
		25*25	0.98
		22*25	1.19
	330	22*30	1.19
		22*40	1.20
		25*36	1.20
		25*40	1.20
		30*30	1.20
	470	30*30	1.20
		22*35	1.30
		22*45	1.32
		25*25	1.30
		25*36	1.32
	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

KS series

Standard Ratings

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	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
	120	22*25	0.80
		22*30	0.85
		22*36	0.93
		25*25	0.85
		25*30	0.85

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current	
V	μF	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	
		180	22*35	1.10
			25*30	1.10
			30*25	1.10
	30*30		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	35*30	1.20	
		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	
		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

KS series

Standard Ratings

Rated Voltage	Rated Capacity	Size ΦD*L	Rated ripple current
V	μF	mm	A
400	680	30*50	2.75
		30*55	2.75
		35*40	2.75
		35*45	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
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 ΦD*L	Rated ripple current
V	μF	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*40	1.69
	330	30*50	1.70
		35*35	1.70
		35*40	1.87
		30*40	1.71
	390	30*50	1.85
		35*40	1.80
		35*50	1.95
		30*50	2.23
	470	35*50	2.30
		30*50	2.45
	560	35*50	2.70
		35*50	2.98
	680	35*55	2.98
		35*60	3.01
		35*60	3.50
	820	35*65	3.50
		35*70	3.50
		35*65	3.60
	1000	35*70	3.60
		40*60	3.70
		35*80	3.80
	1200	35*80	3.80
		40*70	3.80

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