KS Series

Features

- Snap-in,general purpose,long life
- Endurance with ripple current：105℃ 3000 hours
- High ripple current capability
- Safety vent designed on aluminum case
- RoHS2.0 Compliant

Applications

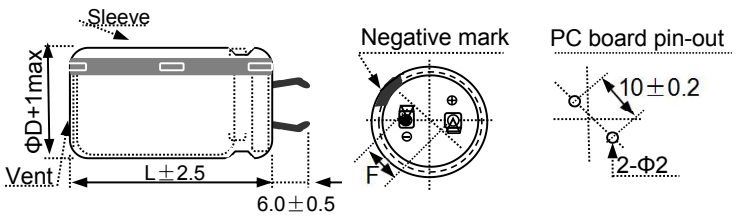
- Professional power supply
- Inverter
- UPS
- Air conditioner,generalpurpose inverter
- Professional arena power amplifier
- Frequency converters
- Medical power supply
- And others

◆ 规格表 Specifications

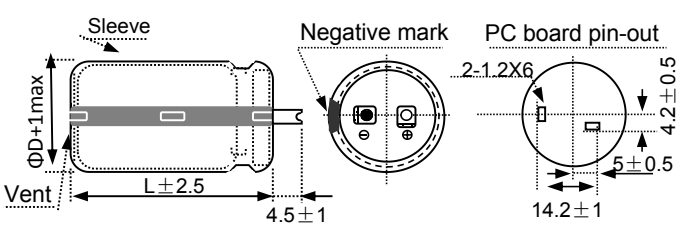
项目Items	特性参数 Characteristics
使用温度范围 Category Temperture Range	-25 ~ +105℃
额定工作电压范围 Rated Voltage Range	160 ~ 450V.DC
电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20℃,120Hz)
漏电流 Leakage Current	$I = 3\sqrt{CV}$ 施加额定工作电压5分钟 After 5 minutes application of rated voltage. Note： I= Max. leakage current (μA),C = Nominal capacitance (μF),V = Rated voltage (V) (at 20℃)
损耗角正切值tanδ Dissipation Factor	Rated voltage(V) | 160 ~ 400 | 420 ~ 450 tanδ (Max.) | 0.15 | 0.20 标称容量超过1000μF,则每增加1000μF,损耗角正切值增加0.02 When nominal capacitance exceeds 1000μF,add 0.02 to the value above for each 1000μF increase.(at 20℃,120Hz)
低温特性 Low Temperature Characteristics (Max.Impedance Ratio)	阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table Rated volage(V) | 160 ~ 400 | 420 ~ 450 Z(-25℃)/Z(+20℃) | 4 | 8 (at 120Hz)
耐久性 Endurance	在105℃环境中，不超过额定电压的范围内叠加最大允许纹波电流，连续3000小时，经恢复到20℃后,电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20℃ after applied within maximum allowable ripple current and not over rated voltage range for 3000 hours at 105℃. Capacitance change | ≦±20% of the initial value D.F.(tanδ) | ≦200% of the initial specified valu Leakage current | ≦The initial specified value
高温储存特性 Shelf Life	在105℃环境中，不施加电压条件下储存1000小时，经恢复到20℃后，电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored at 20℃ after exposing them for 1000 hours at 105℃ without voltage applied. Capacitance change | ≦±15% of the initial value D.F.(tanδ) | ≦150% of the initial specified valu Leakage current | ≦200% of the initial specified valu

◆ 尺寸图（单位：mm）DIMENSIONS (Unit:mm)

●Standard Terminal Type：S (Φ22 ~ Φ35)



●Terminal Type：P (Φ35)



◆ 纹波电流补正系数 Rated Ripple Current Coefficient

● 频率系数 Frequency Coefficient

Frequency (Hz)	50	120	300	1k	10k	50k
160 ~ 250V	0.81	1.00	1.17	1.32	1.45	1.50
315 ~ 450V	0.77	1.00	1.16	1.30	1.41	1.43

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◆ 标准品一览表Standard Ratings

WV(V) / Cap.(μF)	160(2C)				180(2Z)					200(2D)			
390					22×25 1.37					22×25 1.37			
470	22×25 1.50									22×30 1.57	22X35 1.68		
560					22×30 1.71	25×25 1.70				22×35 1.75	25×25 1.70		
680	22×30 1.89	25×25 1.87			22×35 1.93					22×40 1.97	25×30 1.92		
820	22×35 2.12	25×30 2.11			22×40 2.16	25×35 2.11	30×25 2.29			22×45 2.20	25×35 2.20	30×25 2.29	
1,000	22×40 2.38	22×45 2.43	25×35 2.43		22×45 2.43	22×50 2.48	25×35 2.43	25×40 2.48	30×30 2.55	22×50 2.48	25×40 2.48	30×30 2.55	35×25 2.69
1,200	22×50 2.72	25×40 2.71	30×30 2.80	35×25 2.94		25×45 2.80	30×35 2.86	35×25 2.94		25×45 2.80	25×50 2.81	30×35 2.86	35×30 2.99
1,500		25×45 3.08	30×35 3.20			25×40 3.13	30×40 3.29	35×30 3.37		30×40 2.29	35×35 3.39		
1,800		25×50 3.43	30×40 3.60	35×30 3.65				30×45 3.69	35×35 3.71		30×45 3.69	30×45 3.75	35×40 3.84
2,200			30×45 4.08	35×35 4.10				30×50 4.14	35×40 4.25				35×40 4.35
2,700		30×50 4.59	35×40 4.70	35×40 4.81				35×45 4.81	35×50 4.91				35×50 4.91
3,300				35×50 5.43									

WV(V) / Cap.(μF)	250(2E)				315(2F)					400(2G)			
120										22×25 0.80			
150										22×30 0.93			
180					22×25 0.98					22×35 1.05	25×25 1.02		
220					22×30 1.13	25×25 1.13				22×40 1.18	25×30 1.16		
270	22×25 1.14				22×35 1.27					22×45 1.32	25×35 1.33	30×30 1.32	
330	22×30 1.32				22×40 1.43	25×30 1.41	30×25 1.47			22×50 1.50	25×40 1.50	30×30 1.48	35×25 1.55
390	22×35 1.47	25×25 1.43			22×45 1.59	22×50 1.62	25×35 1.60				25×45 1.66	25×50 1.69	30×35 1.64
470	22×40 1.64	25×30 1.60				25×40 1.79	30×30 1.76	35×25 1.85				30×40 1.85	35×30 1.88
560	22×45 1.82	25×35 1.82	30×25 1.90			25×45 1.99	25×50 2.02	30×35 1.96	35×30 2.05		30×45 2.07	30×50 2.15	35×35 2.08
680	22×50 2.05	25×40 2.05	30×30 2.11	35×25 2.22				30×40 2.22	35×35 2.29			35×40 2.37	35×45 2.43
820			25×45 2.29	30×35 2.37			30×45 2.50	30×50 2.54	35×40 2.60				35×50 2.72
1,000		25×50 2.56	30×40 2.69	35×30 2.73					35×45 2.94				
1,200		30×45 3.02	30×50 3.07	35×35 3.03					35×50 3.28				
1,500			35×40 3.51	35×45 3.59	← Case size：ΦD×L(mm) 外壳尺寸：直径X长度（毫米）								
1,800				35×50 4.01	Maximum allowable ripple current at 105℃/120Hz(A.r.m.s) 在105℃/120Hz下的最大允许纹波电流（有效值，单位：安）								

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5℃寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with

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◆ 标准品一览表Standard Ratings

WV(V) / Cap.(μF)	420(W6)				450(2W)									
82					22×25 0.67									
100	22×25 0.73													
120	22×30 0.84	25×25 0.84			22×30 0.84	22×30 0.87	25×25 0.84							
150	22×35 0.97				22×40 0.97	25×30 0.97								
180	22×40 0.97	22×50 1.07	25×35 1.05	30×25 1.09	22×45 1.09	25×35 1.09	30×25 1.09							
220	22×45 1.20	22×50 1.23	25×35 1.21	30×30 1.21	22×50 1.23	25×40 1.23	30×30 1.21	35×25 1.27						
270		25×40 1.36	25×45 1.39	35×25 1.41	25×45 1.39	25×50 1.41	30×35 1.37	35×30 1.43						
330	25×50 1.55	30×35 1.51	30×40 1.55	35×30 1.58			30×40 1.55		35×35 1.74					
390			30×45 1.73	35×35 1.74			30×45 1.73	30×50 1.76	35×45 2.02					
470			30×50 1.93	35×40 1.98				35×40 1.98	35×50 2.25					
560				35×45 2.20	← Case size：ΦD×L(mm) 外壳尺寸：直径X长度（毫米）									
680				35×50 2.48	Maximum allowable ripple current at 105℃/120Hz(A.r.m.s) 在105℃/120Hz下的最大允许纹波电流（有效值，单位：安）									

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5℃寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise.When long life performance is required in actual use,the rms ripple current has to be reduced.