

SU 系列 SERIES

Downsize

RoHS

SU

↑ Downsize
HX P65



- 低背化产品
Downsized
- 保证 105°C、2000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 105°C
- 额定工作电压范围: 160V~450V
Rated voltage range: 160V-450V

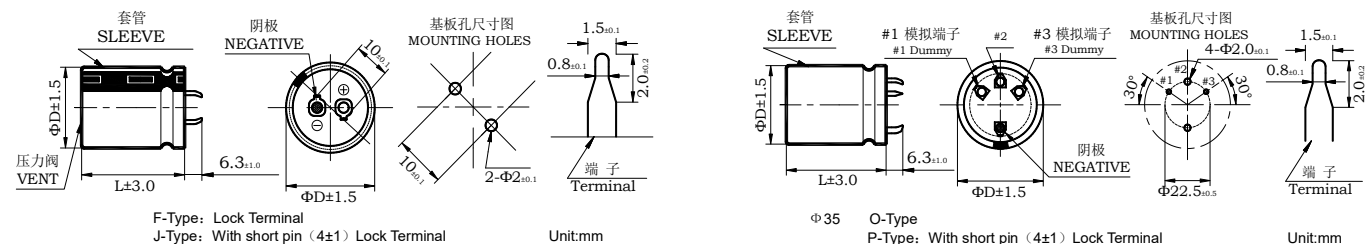
规格表 SPECIFICATIONS

项目 Items	特性 Characteristics														
工作温度范围 Operating Temperature Range	-25~+105°C														
额定工作电压范围 Rated Working Voltage Range	160~450V														
静电容量允许偏差 Capacitance Tolerance	±20% (20°C, 120Hz)														
损耗角正切值 Dissipation Factor (MAX) 20°C, 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </table>	U _R (V)	160	200	250	350	400	450	tanδ	0.15	0.15	0.15	0.15	0.15	0.20
U _R (V)	160	200	250	350	400	450									
tanδ	0.15	0.15	0.15	0.15	0.15	0.20									
阻抗比 Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z_{25°C/20°C}</td> <td>-</td> <td>-</td> <td>-</td> <td>7</td> <td>7</td> <td>8</td> </tr> </table>	U _R (V)	160	200	250	350	400	450	Z _{25°C/20°C}	-	-	-	7	7	8
U _R (V)	160	200	250	350	400	450									
Z _{25°C/20°C}	-	-	-	7	7	8									
漏电流 Leakage Current (MAX)	I=0.01C _R U _R 或 1.5mA 取小者 (20°C, 施加额定电压 5 分钟后) I=0.01C _R U _R or 1.5mA whichever is minimum. (at 20°C, After 5minutes application of rated voltage) I=漏电流 (μA) U _R =额定电压 (V) C _R =静电容量 (μF) Leakage Current Rated Voltage Rated Capacitance														

	使用寿命 Useful Life	负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	3000h >180000h	2000h	2000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 Tgδ Change	≤规定值的 300% ≤300% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value
静电容量变化率 Capacitance Change	初始值±30%以内 Within±30% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value
施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 Failure Rate Level	U _R I _R 105°C ≤1% Failure rate	U _R 1.4×I _R 40°C ≤1% Failure rate	U _R I _R 105°C 0%	U _R =0 I _R =0 105°C 0% Back up to 20 °C and placed more than 24 hours. U _R to be applied for 60 min before measurement.

尺寸图 Dimensions

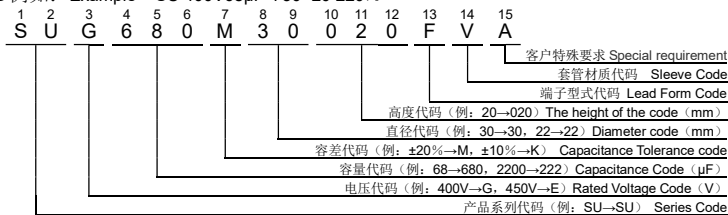
- 常用端子型式代码: Terminal Code



- 记载以外的端子形状, 请另行咨询。Please consult to us for the terminal type not displayed in content.

产品编码体系 PART NUMBER SYSTEM

- 例如: Example SU 400V68μF Φ30×20 ±20%



纹波电流修正系数 Rated Ripple Current Multiplies

● 频率修正系数 Frequency coefficient					
电压范围 (v) Rated voltage	频率 (Hz) Frequency				
160~250VV	0.81	1.00	1.17	1.32	1.45
350~450VV	0.77	1.00	1.16	1.30	1.41
● 温度修正系数 Temperature coefficient					
电压范围 (v) Rated voltage	温度 (°C) Temperature				
160~450VV	2.7	2.5	2.1	1.7	1.0

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
160 (200)	120	22×20	0.15	1106	0.53	SUN121M22020□VA	350 (400)	47	22×20	0.15	2315	0.28	SUH470M22020□VA
	150	22×20	0.15	885	0.59	SUN151M22020□VA		56	25×20	0.15	1943	0.34	SUH560M25020□VA
	180	25×20	0.15	737	0.70	SUN181M25020□VA		68	25×20	0.15	1600	0.39	SUH680M25020□VA
	220	25×20	0.15	603	0.75	SUN221M25020□VA		82	30×20	0.15	1327	0.45	SUH820M30020□VA
	270	30×20	0.15	491	0.95	SUN271M30020□VA		100	30×20	0.15	1088	0.49	SUH101M30020□VA
	330	30×20	0.15	402	1.05	SUN331M30020□VA		120	35×20	0.15	907	0.68	SUH121M35020□VA
	390	30×20	0.15	276	1.15	SUN391M30020□VA		150	35×20	0.15	725	0.80	SUH151M35020□VA
	470	35×20	0.15	232	1.25	SUN471M35020□VA		39	22×20	0.15	2654	0.27	SUG390M22020□VA
	560	35×20	0.15	194	1.36	SUN561M35020□VA		47	25×20	0.15	2202	0.31	SUG470M25020□VA
200 (250)	100	22×20	0.15	1327	0.51	SUL101M22020□VA	400 (450)	56	25×20	0.15	1848	0.34	SUG560M25020□VA
	120	22×20	0.15	1106	0.56	SUL121M22020□VA		68	30×20	0.15	1522	0.40	SUG680M30020□VA
	150	25×20	0.15	885	0.65	SUL151M25020□VA		82	30×20	0.15	1262	0.45	SUG820M30020□VA
	180	30×20	0.15	737	0.78	SUL181M30020□VA		100	35×20	0.15	1035	0.51	SUG101M35020□VA
	220	30×20	0.15	603	0.85	SUL221M30020□VA		120	35×20	0.15	863	0.60	SUG121M35020□VA
	270	30×20	0.15	491	1.05	SUL271M30020□VA		33	22×20	0.20	3941	0.25	SUE330M22020□VA
	330	30×20	0.15	402	1.10	SUL331M30020□VA	39	25×20	0.20	3334	0.28	SUE390M25020□VA	
	390	35×20	0.15	276	1.30	SUL391M35020□VA	47	25×20	0.20	2767	0.31	SUE470M25020□VA	
470	35×20	0.15	232	1.41	SUL471M35020□VA	56	30×20	0.20	2322	0.36	SUE560M30020□VA		
250 (300)	68	22×20	0.15	1951	0.39	SUJ680M22020□VA	450 (500)	68	30×20	0.20	1912	0.40	SUE680M30020□VA
	82	22×20	0.15	1681	0.45	SUJ820M22020□VA		82	35×20	0.20	1586	0.46	SUE820M35020□VA
	100	25×20	0.15	1327	0.59	SUJ101M25020□VA		100	35×20	0.20	1300	0.52	SUE101M35020□VA
	120	25×20	0.15	1106	0.62	SUJ121M25020□VA							
	150	30×20	0.15	885	0.76	SUJ151M30020□VA							
	180	30×20	0.15	737	0.79	SUJ181M30020□VA							
	220	30×20	0.15	603	0.88	SUJ221M30020□VA							
	270	35×20	0.15	491	1.00	SUJ271M35020□VA							
330	35×20	0.15	402	1.16	SUJ331M35020□VA								

*产品编码中□内为产品端子引出型式代码

*□Enter the appropriate terminal code

*记载之外的体积，请另行咨询。

* Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.