

SU SERIES



● Downsized

● Endurance with ripple current: 2000 hours at 105°C

● Rated voltage range: 160V-450V

SU

↑ Downsized
HX P23

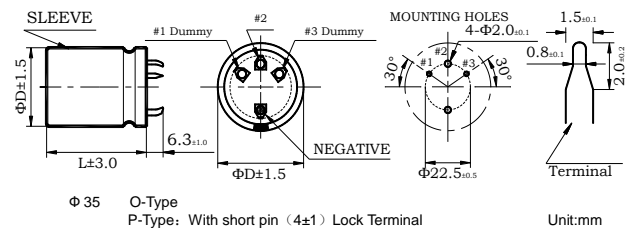
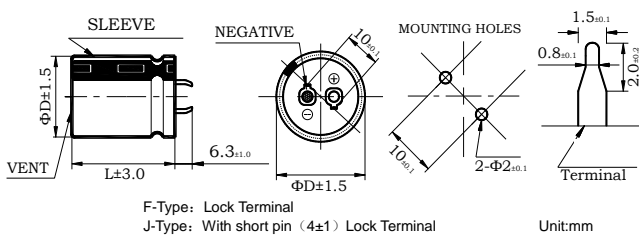
◆ SPECIFICATIONS

Items	Characteristics														
Operating Temperature Range	-25~+105°C														
Rated Working Voltage Range	160~450V														
Capacitance Tolerance	±20% (20°C, 120Hz)														
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>0.18</td> <td>0.18</td> <td>0.18</td> </tr> </table>	U _R (V)	160	200	250	350	400	450	tanδ	0.15	0.15	0.15	0.18	0.18	0.18
U _R (V)	160	200	250	350	400	450									
tanδ	0.15	0.15	0.15	0.18	0.18	0.18									
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>7</td> </tr> </table>	U _R (V)	160	200	250	350	400	450	Z-25°C/20°C	-	-	-	7	7	7
U _R (V)	160	200	250	350	400	450									
Z-25°C/20°C	-	-	-	7	7	7									
Leakage Current (MAX)	I=0.01C _R U _R or 1.5mA whichever is minimum. (at 20°C, After 5minutes application of rated voltage) I=Leakage Current(µA) U _R =Rated Voltage(V) C _R =Rated Capacitance(µF)														

	Useful Life	Load Life	Endurance Test	Shelf Life
Life Time	3000h >180000h	2000h	2000h	1000h
Leakage Current	≤ Specified value	≤ Specified value	≤ Specified value	≤ Specified value
Tgδ Change	≤300% of specified value	≤200% of specified value	≤ 200% of specified value	≤ 200% of specified value
Capacitance Change	Within ±30% of initial value	Within ±20% of initial value	Within ±20% of initial value	Within ±20% of initial value
Condition Applied Voltage Applied Ripple Current Applied Temperature 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.

◆ Dimensions

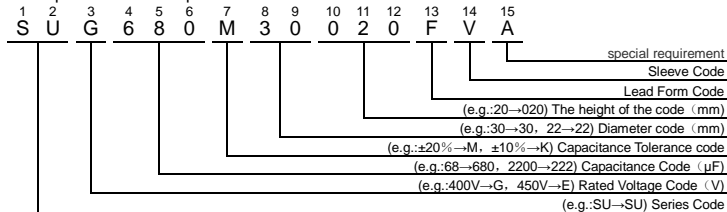
● Terminal Code



● Please consult to us for the terminal type not displayed in content.

◆ PART NUMBER SYSTEM

● Example SU 400V68µF Φ30×20 ±20%



◆ Rated Ripple Current Multiplies

● Frequency coefficient

Rated voltage (v)	Frequency (Hz)				
	50 (60)	100 (120)	300	1k	≥10k
160~250VV	0.81	1.00	1.17	1.32	1.45
315~450VV	0.77	1.00	1.16	1.30	1.41

● Temperature coefficient

Rated voltage (v)	Temperature (°C)				
	+40	+55	+70	+85	+105
160~450VV	2.7	2.5	2.1	1.7	1.0

SU SERIES

◆ Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
160 (200)	120	22×20	0.15	0.53	SUN121M22020□VA
	150	22×20	0.15	0.59	SUN151M22020□VA
	180	25×20	0.15	0.70	SUN181M25020□VA
	220	25×20	0.15	0.75	SUN221M25020□VA
	270	30×20	0.15	0.95	SUN271M30020□VA
	330	30×20	0.15	1.05	SUN331M30020□VA
	390	30×20	0.15	1.15	SUN391M30020□VA
	470	35×20	0.15	1.25	SUN471M35020□VA
200 (250)	560	35×20	0.15	1.36	SUN561M35020□VA
	100	22×20	0.15	0.51	SUL101M22020□VA
	120	22×20	0.15	0.56	SUL121M22020□VA
	150	25×20	0.15	0.65	SUL151M25020□VA
	180	30×20	0.15	0.78	SUL181M30020□VA
	220	30×20	0.15	0.85	SUL221M30020□VA
	270	30×20	0.15	1.05	SUL271M30020□VA
	330	30×20	0.15	1.10	SUL331M30020□VA
250 (300)	390	35×20	0.15	1.30	SUL391M35020□VA
	470	35×20	0.15	1.41	SUL471M35020□VA
	68	22×20	0.15	0.39	SUJ680M22020□VA
	82	22×20	0.15	0.45	SUJ820M22020□VA
	100	25×20	0.15	0.59	SUJ101M25020□VA
	120	25×20	0.15	0.62	SUJ121M25020□VA
	150	30×20	0.15	0.76	SUJ151M30020□VA
	180	30×20	0.15	0.79	SUJ181M30020□VA
	220	30×20	0.15	0.88	SUJ221M30020□VA
	270	35×20	0.15	1.00	SUJ271M35020□VA
330	35×20	0.15	1.16	SUJ331M35020□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
350 (400)	47	22×20	0.18	0.28	SUH470M22020□VA
	56	25×20	0.18	0.34	SUH560M25020□VA
	68	25×20	0.18	0.39	SUH680M25020□VA
	82	30×20	0.18	0.45	SUH820M30020□VA
	100	30×20	0.18	0.49	SUH101M30020□VA
	120	35×20	0.18	0.68	SUH121M35020□VA
	150	35×20	0.18	0.80	SUH151M35020□VA
	400 (450)	39	22×20	0.18	0.27
47		25×20	0.18	0.31	SUG470M25020□VA
56		25×20	0.18	0.34	SUG560M25020□VA
68		30×20	0.18	0.40	SUG680M30020□VA
82		30×20	0.18	0.45	SUG820M30020□VA
100		35×20	0.18	0.51	SUG101M35020□VA
450 (500)	120	35×20	0.18	0.60	SUG121M35020□VA
	33	22×20	0.18	0.25	SUE330M22020□VA
	39	25×20	0.18	0.28	SUE390M25020□VA
	47	25×20	0.18	0.31	SUE470M25020□VA
	56	30×20	0.18	0.36	SUE560M30020□VA
	68	30×20	0.18	0.40	SUE680M30020□VA
	82	35×20	0.18	0.46	SUE820M35020□VA
	100	35×20	0.18	0.52	SUE101M35020□VA

*□Enter the appropriate terminal code

* Please ask for advice for other sizes.

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. the useful life will be half of original life when temp rises every 5°C. Please reduce the ripple current when using capacitor.