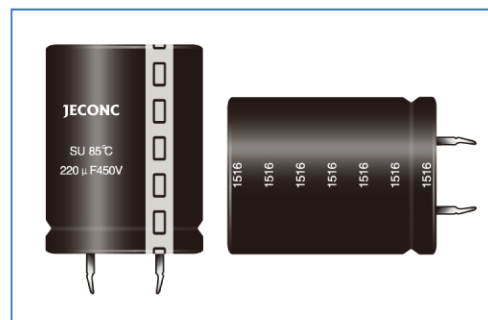


SU 系列 SERIES

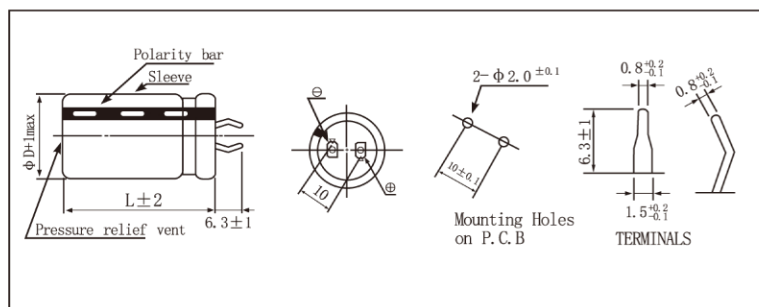
- Small Size
- Long Useful life (85°C 5000h)
- High Ripple Current
- Industrial Power Supplies and Inverters



◆ SPECIFICATION

Items	Characteristics												
Operating Temperature Range(°C)	-25 ~ +85°C												
Voltage range (V)	160~450V												
Capacitance Range (µF)	68~2200 µF												
Capacitance Tolerance	±20% (at 20°C, 120Hz)												
Dissipation Factor(Tan δ)	<table border="1"> <tr> <td>U_R (V)</td> <td>160</td> <td>200</td> <td>250</td> <td>400</td> <td>450</td> </tr> <tr> <td>tg δ</td> <td colspan="2">0.15</td> <td colspan="3">0.2</td> </tr> </table>	U _R (V)	160	200	250	400	450	tg δ	0.15		0.2		
	U _R (V)	160	200	250	400	450							
tg δ	0.15		0.2										
A For capacitance of more than 1000µF, A add 0.02 for every increase of 1000µF. A(at 20°C, 120Hz)													
Low Temperature Characteristics	<table border="1"> <tr> <td>U_R (V)</td> <td>160~450</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> </tr> </table> (at 120Hz)	U _R (V)	160~450	Z-25°C/Z+20°C	4								
U _R (V)	160~450												
Z-25°C/Z+20°C	4												
leakage current (µA)	I=0.01C _R U _R or 1.5mA whichever is smaller. (at20°C, After 5 minutes application of rated voltage) I=Leakage Current UR=Rated Voltage CR=Rated Capacitance												
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated rippled current is applied for 5000 hours at 85°C												
<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20%initial value</td> </tr> <tr> <td>D. F. (Tan δ)</td> <td>Not more than200% of specified value</td> </tr> <tr> <td>leakage current</td> <td>Not more than specified value</td> </tr> </table>		Capacitance change	Within ±20%initial value	D. F. (Tan δ)	Not more than200% of specified value	leakage current	Not more than specified value						
Capacitance change	Within ±20%initial value												
D. F. (Tan δ)	Not more than200% of specified value												
leakage current	Not more than specified value												
Shelf Life	After leaving capacitors under no load at 85° C for 1000 hours, they meet the characteristic requirements listed at right.												
<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20%initial value</td> </tr> <tr> <td>D. F. (Tan δ)</td> <td>Not more than 200% of specified value</td> </tr> <tr> <td>leakage current</td> <td>Not more than 200% of specified value</td> </tr> </table>		Capacitance change	Within ±20%initial value	D. F. (Tan δ)	Not more than 200% of specified value	leakage current	Not more than 200% of specified value						
Capacitance change	Within ±20%initial value												
D. F. (Tan δ)	Not more than 200% of specified value												
leakage current	Not more than 200% of specified value												

◆ DIMENSIONS(mm)



◆ Frequency Coefficient

Frequency (Hz)	50/60	120	1K	10K	100K
Coefficient	0.87	1.00	1.20	1.35	1.40

◆ Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85
Coefficient	1.7	1.5	1.3	1.0



◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 85°C 120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mΩ)	(A rms)	(mm)
160V (200) 2C	330	603	355	1.5	22×25
	390	510	300	1.6	25×25
	470	424	245	1.8	22×35
	560	355	215	2.1	22×35
		355	215	2.2	25×30
		355	215	2.1	30×25
	680	293	178	2.6	22×40
		293	178	2.5	25×35
	820	243	145	2.8	22×50
		243	145	2.7	25×40
		243	145	2.9	30×30
		243	145	2.8	35×25
	1000	199	115	3.3	25×45
		199	115	3.4	30×35
		199	115	3.3	35×30
	1200	166	95	3.7	25×50
166		95	3.8	30×40	
166		95	3.6	35×35	
1500	133	75	4.4	30×45	
	133	75	4.3	35×40	
1800	111	75	4.4	35×45	
2200	91	58	5.9	35×50	
200 (250) 2D	220	905	375	1.2	22×25
	330	603	258	1.5	22×30
		603	258	1.6	25×25
	390	510	221	1.8	22×35
		510	221	1.8	25×30
	470	424	175	2.0	22×40
		424	175	2.1	30×25
	560	355	150	2.2	22×45
		355	150	2.2	25×35
		355	150	2.3	30×30
	680	355	150	2.2	35×25
		293	128	2.6	25×40
	820	293	128	2.4	30×30
		243	105	2.7	25×50
	820	243	105	2.8	30×40
		243	105	2.6	35×30
199		80	3.4	30×40	
1000	199	80	3.6	35×35	
	166	70	3.8	30×50	
1200	166	70	3.7	35×40	
	1500	133	55	4.7	35×50
250 (300) 2E	150	1327	550	0.92	22×25
	180	1106	470	0.98	22×25
	220	905	370	1.25	22×30
		905	370	1.25	25×25
	270	737	370	1.25	22×35
	330	603	250	1.64	22×40
		603	255	1.64	25×30
		603	255	1.64	30×25
	390	510	220	1.9	22×45
		510	220	1.9	25×35
	470	424	175	2.2	22×50
		424	175	2.2	25×40
		424	175	2.2	30×30
		424	175	2.2	35×25
	560	355	150	2.4	25×45
		355	150	2.4	30×35



◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 85°C 120Hz	Size ΦD×L
(V)	(μF)	(mΩ)	(mΩ)	(A rms)	(mm)
250 (300) 2E	680	293	123	2.8	30×40
		293	123	2.8	35×30
	820	243	105	3.2	30×45
		243	105	3.2	35×35
	1000	199	80	3.7	35×40
	1200	166	70	4.1	35×45
1500	133	60	4.6	35×50	
400 (450) 2G	68	3902	1561	0.62	22×25
	100	2654	1061	0.81	22×30
		2654	1061	0.83	25×25
	120	2211	884	0.93	22×35
	150	1769	707	1.2	22×40
		1769	707	1.2	25×30
		1769	707	1.2	30×25
	180	1474	589	1.3	22×45
		1474	589	1.3	25×35
		1474	589	1.3	30×30
		1474	589	1.3	35×25
	220	1206	482	1.5	22×50
		1206	482	1.5	25×40
		1206	482	1.5	30×35
	270	982	393	1.7	25×45
		982	393	1.7	30×40
		982	393	1.7	35×30
	330	804	321	2.1	30×45
		804	321	2.1	35×35
	390	680	272	2.3	30×50
680		272	2.3	35×40	
470	564	225	2.7	35×45	
560	474	189	3	35×50	
450V (500) 2W	47	5646	2800	0.52	22×25
	68	3902	1940	0.66	22×30
		3902	1940	0.66	25×25
	100	2653	1310	0.90	22×35
		2653	1310	0.90	25×30
		2653	1310	0.90	30×25
	120	2211	910	1.10	22×40
		2211	910	1.10	25×35
	150	1769	880	1.30	22×50
		1769	880	1.30	25×40
		1769	880	1.30	30×30
	180	1474	740	1.40	25×45
		1474	740	1.40	30×35
		1474	740	1.40	35×25
	220	1206	590	1.60	25×50
		1206	590	1.60	30×40
		1206	590	1.60	35×30
	270	982	490	1.90	30×45
		982	490	1.90	35×35
	330	804	395	2.20	35×40
390	680	300	2.40	35×45	
470	564	280	2.80	35×50	

Customer products are available on request