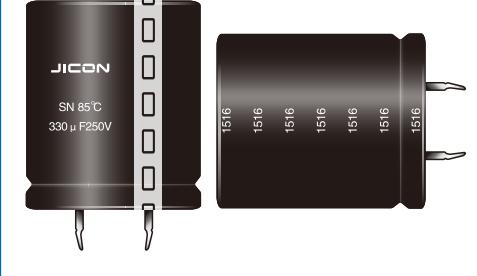


SN 系列 SERIES

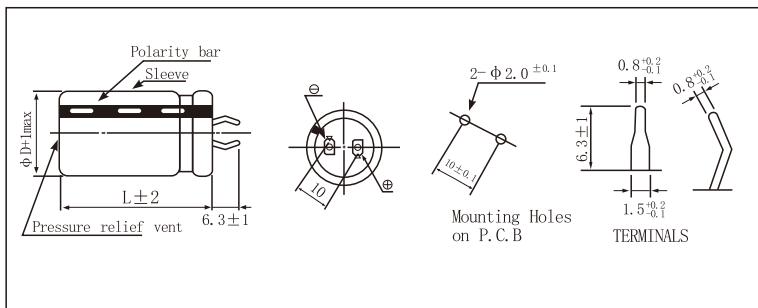
- Small Size
- Long Useful life (85°C 3000h)
- High Ripple Current
- Industrial Power Supplies and Inverters



◆ 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)	U _R (V)	160	200	250	400	450								
	tg δ	0.15		0.2										
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. (at 20°C, 120Hz)													
Low Temperature Characteristics	U _R (V)	160~450												
	Z-25°C/Z+20°C	4												
	(at 120Hz)													
leakage current (μA)	I=0.01C _R U _R or 1.5mA whichever is smaller. (at 20°C, After 5 minutes application of rated voltage) I=Leakage Current U _R =Rated Voltage C _R =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 3000 hours at 85°C													
	Capacitance change	Within ±20%initial value												
	D.F. (Tan δ)	Not more than 200% 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.													
	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	50/60	120	1k	10k	100k
Coefficiency	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

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◆ 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
		355	150	2.2	35×25
	680	293	128	2.6	25×40
		293	128	2.4	30×30
	820	243	105	2.7	25×50
		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	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

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◆ 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	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
	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

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SERIES

◆ 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 Φ D × L
(V)	(μF)	(mΩ)	(mΩ)	(A rms)	(mm)
450V (500) 2W	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