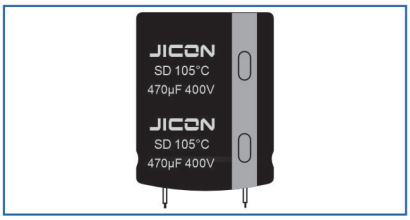
SD 系 列 SERIES



- 2000h at 105°C
- High ripple current,for inverter
- Standard series for general purpose
- RoHS Compliant

Items	Characteristics
Operating Temperature Range(°C)	-25～+105
Voltage Range (V)	160～500
Capacitance Range (μF)	82～2200
Capacitance Tolerance(20°C,120Hz)	±20%
Leakage Current (μA)	I≤ 0.01CV or 1.5mA whichever is greater After 5 minute at 20°C application of rated voltage I:Max. leakage current (μA) C:Nominal Capacitance (μF) V:Rated Voltage (V)

Dissipation Factor (20°C,120Hz)

Rated Voltage (V)	160	200~250	350~400	450	500
Tanδ(max)	0.15	0.15	0.15	0.15	0.24

Low Temperature Characteristics (Max. Impedance Ratio at 120Hz)

Rated Voltage (V)	160	200~250	350~400	450	500
Z-25°C/Z+20°C	4	4	4	4	6

Load Life

The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C.

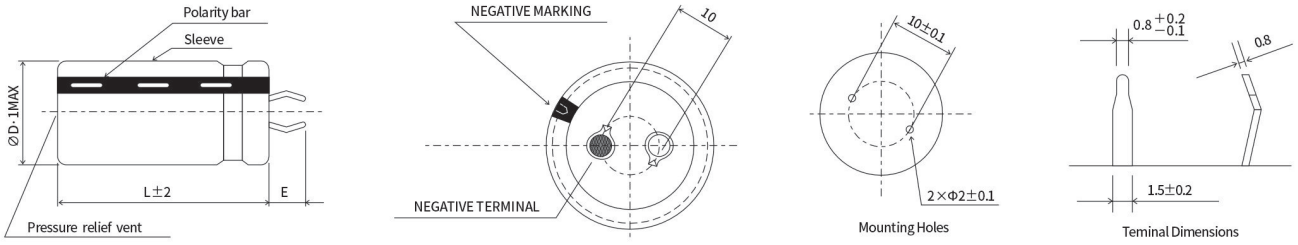
Capacitance change	≤± 20% of the initial value
D.F.(Tanδ)	≤200% of specified value
Leakage current	≤The initial specified value

Shelf Life

The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied .

Capacitance change	≤± 20% of the initial value
D.F.(Tanδ)	≤200% of specified value
Leakage current	≤200% of specified value

◆ Dimensions(mm)



E=Short pin:4±0.5mm
E=Long pin:6.3±1mm

◆ Temperature Coefficient

Temperature(°C)	+40	+55	+70	+85	+105
Coefficient	2.70	2.50	2.10	1.70	1.00

◆ Frequency Coefficien

Frequency	50/60HZ	120HZ	1KHZ	≥10KHZ
Coefficient	0.80	1.00	1.30	1.41

◆ Ratings for SD Series

UR (Surge Voltage) Code	Rated Capacitance	Max Dissipation Factor 20°C120Hz	Rated Ripple Current 105°C120Hz	Size ϕD×L
(V)	(μF)	tanδ	(A rms)	(mm)
160(200)2C	220	0.15	0.84	22×25
	270	0.15	1.1	22×25
	330	0.15	1.3	22×30
	390	0.15	1.6	22×30
	470	0.15	1.7	25×30
	560	0.15	1.9	25×35
	680	0.15	2.0	25×35
	820	0.15	2.1	25×40
	1000	0.15	2.3	25×50
	1200	0.15	2.5	30×40
	1500	0.15	2.7	30×45
	1800	0.15	3.1	35×45
	2200	0.15	3.2	35×50
200(250)2D	220	0.15	1.2	22×25
	270	0.15	1.3	22×30
	330	0.15	1.5	22×35
	390	0.15	1.6	22×35
	470	0.15	1.7	22×40
	560	0.15	1.8	22×45
	680	0.15	2.0	25×45
	820	0.15	2.2	25×50
	1000	0.15	2.4	30×45
	1200	0.15	2.6	30×50
	1500	0.15	2.7	35×50
	1800	0.15	2.8	35×55
	2200	0.15	3.3	35×60
250(300)2E	150	0.15	0.84	22×25
	180	0.15	1.1	22×30
	220	0.15	1.2	22×30
	270	0.15	1.3	22×35
	330	0.15	1.4	22×40
	390	0.15	1.5	22×45
	470	0.15	1.6	22×50
	560	0.15	1.7	25×45
	680	0.15	1.9	30×40
	820	0.15	2.0	30×45
	1000	0.15	2.1	35×45
	1200	0.15	2.3	35×50
	1500	0.15	2.7	35×60
350(400)2V	100	0.15	0.75	22×25
	120	0.15	0.84	22×30
	150	0.15	0.95	22×35
	180	0.15	1.0	22×40
	220	0.15	1.1	22×45
	270	0.15	1.2	25×40
	330	0.15	1.4	25×55
	390	0.15	1.6	30×40
	470	0.15	1.9	30×45
	560	0.15	2.1	35×45
	680	0.15	2.3	35×50
	820	0.15	2.7	35×65
	1000	0.15	3.0	35×60

UR (Surge Voltage) Code	Rated Capacitance	Max Dissipation Factor 20°C120Hz	Rated Ripple Current 105°C120Hz	Size ϕD×L
(V)	(μF)	tanδ	(A rms)	(mm)
400(450)2G	82	0.15	0.68	22×25
	100	0.15	0.74	22×30
	120	0.15	0.79	22×30
	150	0.15	0.87	22×35
	180	0.15	1.0	22×40
	220	0.15	1.2	22×45
	270	0.15	1.4	25×45
	330	0.15	1.6	30×35
	390	0.15	1.7	30×40
	470	0.15	2.0	35×40
	560	0.15	2.2	35×45
	680	0.15	2.4	35×50
	820	0.15	2.8	35×55
	1000	0.15	3.1	35×60
420(470)2X	82	0.15	0.68	22×25
	100	0.15	0.74	22×30
	120	0.15	0.84	22×30
	150	0.15	0.87	25×30
	180	0.15	1.0	25×35
	220	0.15	1.2	25×40
	270	0.15	1.4	25×45
	330	0.15	1.7	30×40
	390	0.15	1.7	30×45
	470	0.15	2.0	30×50
	560	0.15	2.2	35×45
	680	0.15	2.4	35×50
	820	0.15	2.9	35×60
	1000	0.15	3.3	35×70
450(500)2W	82	0.15	0.67	22×30
	100	0.15	0.74	22×35
	120	0.15	0.77	22×35
	150	0.15	0.82	25×35
	180	0.15	0.91	25×40
	220	0.15	1.0	25×45
	270	0.15	1.3	25×50
	330	0.15	1.5	30×40
	390	0.15	1.7	30×45
	470	0.15	2.0	35×45
	560	0.15	2.2	35×50
	680	0.15	2.6	35×60
	820	0.15	3.0	35×65
	1000	0.15	3.6	35×75
500(550)2H	100	0.24	0.7	25×30
	120	0.24	0.81	25×35
	150	0.24	0.89	25×40
	180	0.24	1.1	25×45
	220	0.24	1.2	30×40
	270	0.24	1.4	30×45
	330	0.24	1.8	30×50
	390	0.24	1.9	35×45
	470	0.24	2.1	35×55
	560	0.24	2.3	35×60
	680	0.24	2.8	35×70