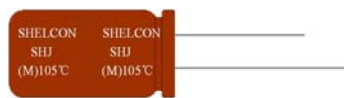
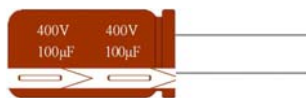


SHJ SERIES

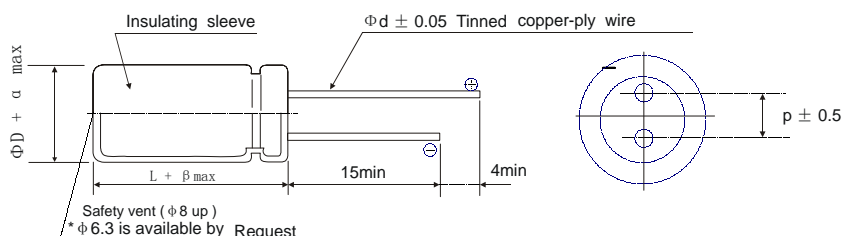


- 105°C, Long Life, High Ripple Current, High Frequency
- 3000 hours guaranteed for WV ≤ 100AV, 4000-7000 hours guaranteed for WV = 160 ~ 250AV
- 8000 hours guaranteed for WV = 350AV ~ 450AV

■ SPECIFICATIONS

Item	Characteristics	
Operating Temperature Range	-40°C ~ +105°C	-25°C ~ +105°C
Voltage Range	10 ~ 100 V.DC	160 ~ 450V.DC
Nominal Cap. Range	0.47 ~ 3300 µF	10 ~ 330 µF
Leakage Current	WV	10V ~ 100V 160V ~ 450V
	L.C.	I=0.01CV or 3(µA) whichever is greater. (after 2 min) I=0.03CV or 4(µA) whichever is greater. (after 1 min)
where I: Max Leakage Current(µA), C: Nominal Capacitance(µF), V: Rated Voltage(V) (at 20°C)		
Dissipation Factor (tanδ) (at +20°C 120HZ)	WV	6.3 10 16 25 35 50 63 100 160 ~ 250 350 ~ 450
	tanδ	0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08 0.15 0.20
Add 0.02 per 1,000µF for more than 1,000µF items .		
Low Temperature Impedance Stability at 120Hz	W.V.	6.3 10 16 25 35 50 63 100
	Z(-25°C)/Z(+20°C)	5 4 3 2 2 2 2 2
	Z(-40°C)/Z(+20°C)	12 10 8 5 4 3 3 3
	W.V.	160 200 250 350 400 450
Z(-25°C)/Z(+20°C)	3 3 4 4 6 15	
Impedance(Ω)	See Case Size Table	
High Temp. Load Test	After WV ≤ 100V: 3000 hours; WV = 160V ~ 250V: 4000 ~ 7000 hours; WV = 350V ~ 450V: 8000 hours application of DC rated working voltage at +105°C, the capacitor shall meet the following limits . Capacitance Change ... ≤ ±20% of the initial measured value Tan δ ... ≤ 200% of the initial specified value DC Leakage Current ... ≤ the initial specified value	
High Temp. Non-Load Test	After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met.	

● DRAWING



Unit: (mm)

ΦD	5	6.3	8	10	13	16	18
P	2	2.5	3.5	5	5	7.5	7.5
Φd	0.5		0.6		0.8		
β	1.0		1.5		2.0		
α	0.5						

▼ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency coefficient

Cap.(µF) \ Freq.(Hz)	120	1K	10K	100K
0.47~10	1.00	1.4	1.55	1.65
22~470	1.00	1.2	1.25	1.30
1000~3300	1.00	1.05	1.10	1.15

(2) Temperature coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00

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STANDARD RATINGS

10V			16V		
WV(Vdc)	10V		WV(Vdc)	16V	
Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 120HZ	Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 120HZ
Cap.(μF)			Cap.(μF)		
100	5X11	66	100	5X11	80
220	6.3X11	100	220	6.3X11	150
470	8X11.5	180	330	8X11.5	240
2200	13X20	540	470	10X12.5	430
3300	13X25	802	1000	10X16	706
25V			35V		
WV(Vdc)	25V		WV(Vdc)	35V	
Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 120HZ	Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 120HZ
Cap.(μF)			Cap.(μF)		
47	5X11	55	33	5X11	210
100	6.3X11	95	220	8X15	340
220	8X11.5	135	330	10X16	640
330	10X12.5	255	470	10X20	865
470	10X16	321	1000	13X25	1210
1000	13X20	438			
50V			63V		
WV(Vdc)	50V		WV(Vdc)	63V	
Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 120HZ	Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 100KHZ
Cap.(μF)			Cap.(μF)		
0.47	5X11	4	0.47	5X11	5
1	5X11	8	1	5X11	9
2.2	5X11	15	2.2	5X11	17
3.3	5X11	18	3.3	5X11	20
4.7	5X11	20	4.7	5X11	23
10	5X11	27	10	5X11	30
22	5X11	39	22	6.3X11	55
47	6.3X11	87	33	6.3X11	60
100	8X11.5	99	47	6.3X11	80
220	10X16	234	100	8X11.5	180
330	10X20	293	220	10X20	292
470	13X20	370	330	13X20	381
			470	13X25	454
100V					
WV(Vdc)	100V				
Parameter	ΦDxL (mm)	Ripple Current (mArms) 105°C, 120HZ			
Cap.(μF)					
0.47	5X11	9			
1	5X11	17			
2.2	5X11	20			
3.3	5X11	23			
4.7	5X11	30			
10	6.3X11	55			
22	8X11.5	60			
33	10X12.5	80			
47	10X16	180			
100	10X20	292			

Rated Ripple Current (mArms) at 105°C 120Hz
 Case Size: ΦDxL(mm)

SHJ SERIES

STANDARD RATINGS

160V			200V		
WV(Vdc)	Parameter	WV(Vdc)	Parameter	WV(Vdc)	Parameter
Cap.(μ F)	Φ DxL (mm)	Ripple Current (mArms) 105°C, 120HZ	Cap.(μ F)	Φ DxL (mm)	Ripple Current (mArms) 105°C, 120HZ
22	10x20	470	22	10x20	470
33	10x20	470	33	13x20	470
47	13x20	600	47	13x20	600
68	16x20	750	68	16x20	750
100	18x20	1060	100	18x20	1060
150	18x25	1280	150	18x25	1280
220	18x25	1280	220	18x31.5	1690
330	18x31.5	1690			
250V			350V		
WV(Vdc)	Parameter	WV(Vdc)	Parameter	WV(Vdc)	Parameter
Cap.(μ F)	Φ DxL (mm)	Ripple Current (mArms) 105°C, 120HZ	Cap.(μ F)	Φ DxL (mm)	Ripple Current (mArms) 105°C, 120HZ
22	13x20	560	10	10X20	270
33	13X20	560	22	13X25	350
47	16x20	710	33	16X20	480
68	18x20	990	47	18X20	640
100	18x25	1200	68	18x25	780
150	18x31.5	1470	100	18x31.5	970
400V			450V		
WV(Vdc)	Parameter	WV(Vdc)	Parameter	WV(Vdc)	Parameter
Cap.(μ F)	Φ DxL (mm)	Ripple Current (mArms) 105°C, 120HZ	Cap.(μ F)	Φ DxL (mm)	Ripple Current (mArms) 105°C, 120HZ
10	10X20	250	10	13X20	310
22	13X25	410	22	16X25	560
33	16X25	600	33	18X25	680
47	18X25	730	47	18X31.5	850
68	18x31.5	970	68	18X32	1200
100	18x32	1200	100	18x36	1470
120	18x36	1470	120	18x40	1550