

## RL Series Screw Terminal Type, Long Life

### Features

- ◆ High ripple current
- ◆ Newly improved long life guaranteed for 5,000 hours load life at 105°C.
- ◆ Suited for the general-purpose inverter
- ◆ For detail specifications, please refer to Engineering Bulletin NO. E148
- ◆ RoHS Compliant



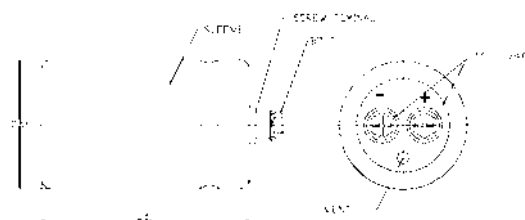
### Specifications

Item	Performance Characteristics			
Operating Temperature Range	-25 to +105°C			
Rated Voltage Range	400WV、450WV			
Capacitance Range	2200 to 8200 μF			
Capacitance Tolerance	±20%(120Hz,+20°C)			
Leakage Current (+20°C,max.)	I ≤ 0.02 CV After 5 minutes with rated working voltage applied.			
Dissipation Factor (tan δ、at 20°C、120Hz)	0.2 max			
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.			
	<table border="1"> <tr> <td>Z-25°C / Z+20°C</td> <td>3</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>12</td> </tr> </table>	Z-25°C / Z+20°C	3	Z-40°C / Z+20°C
Z-25°C / Z+20°C	3			
Z-40°C / Z+20°C	12			
Load Life	Test conditions Duration time :5000 Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage  After test requirement at +20°C Capacitance change :≤ ±20% of the initial value Dissipation factor :≤ ±200% of the specified value Leakage current :≤ Not more than the specified value			
	Test conditions Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None  After test requirement at +20°C:Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.			
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None  After test requirement at +20°C:Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.			

### Multiplier for Ripple Current vs. Frequency

VDC\Frequency(Hz)	50(60)	120	400	1K	10K≤
400 / 450WV	0.8	1	1.1	1.3	1.4

### Diagram of Dimensions:(unit:mm)



φD	89	63.5	76.2
P	31.8	28.6	31.8

## Case Size

WV (SV) Cap( $\mu$ F)	400 (450)		450 (500)	
	Size	Ripple	Size	Ripple
2200	63.5x110	11.6	63.5x115	12.1
2700	63.5x115	13.7	63.5x130	14.3
3300	63.5x130	16.1	76.2x110	16.9
4700	76.2x130	21.2	76.2x140	22.6
5600	76.2x150	24.3	76.2x160	25.2
6800	89x150	27.1	89x160	26.0
8200	89x170	29.8	89x190	28.3

$\phi$  DxL(mm)

Ripple Current ( A, rms ) at 105°C 120Hz