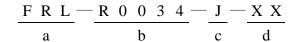
SINLOON

# **Shunt Resistor**

# 1. Scope:

The shunt resistor FRL-R0034-J-XX is custom-made only.

## 2. Part Number:



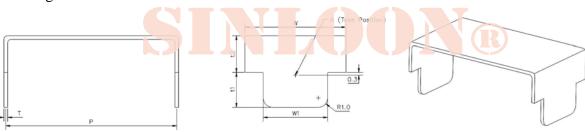
- a. Type code
- b. Nominal resistance
- c. Resistance tolerance
- d. Custom-made code

#### 3. Structure:

Ni alloy resistor, cover with heat resistive epoxy resin partly

#### 4. Dimension:

Figure - 1



					Unit: mm
W	W1	Т	t1	t2	Р
11.0±0.1	7.0±0.1	0.4±0.05	3.8±0.1	4.0±0.1	18.0±0.1

Special dimensions request by customer are available

## 5. Specification:

Parameter	Specification	
Desistance	3.4m $\Omega$ (4 points measurement : current and	
Resistance	voltage measure on figure $-1$ A)	
Resistance Tolerance	± 5%	
Temperature Coefficient of Resistance	±50ppm/°C	
Rated Load	10W	
Maximum Over Current	60A (10 minutes maximum)	
Operating Temperature	-55°C ~ 155°C	



Rated Temperature	+70°C
Maximum Surface Temperature	$+275^{\circ}$ C (under 150°C on terminal)

#### 6. Performance:

Item	Condition	Specification
Rated Current	Continuous 36A with 60A/7sec. maximum. (Refer to figure $-2$ )	No visual damaged. Resistance changed $\leq \pm 2\%$
ingii iemperature	-	No visual damaged. Resistance changed $\leq \pm 2\%$
Storage	I	No visual damaged. Resistance changed $\leq \pm 2\%$
Temperature Cycle	$[-40^{\circ}C/30min \rightarrow R.T. 10min \rightarrow +125^{\circ}C/30min$ → R.T. 10min ] 300 continuous cycles.	No visual damaged. Resistance changed $\leq \pm 2\%$
wioistuic	1	No visual damaged. Resistance changed $\leq \pm 2\%$
Load Life	<b>7</b> 1	No visual damaged. Resistance changed $\leq \pm 5\%$
Solderability	Dipped into solder for $5\pm0.5$ sec at $245\pm5$ °C	A new solder shall cover minimum of 90 $\%$

