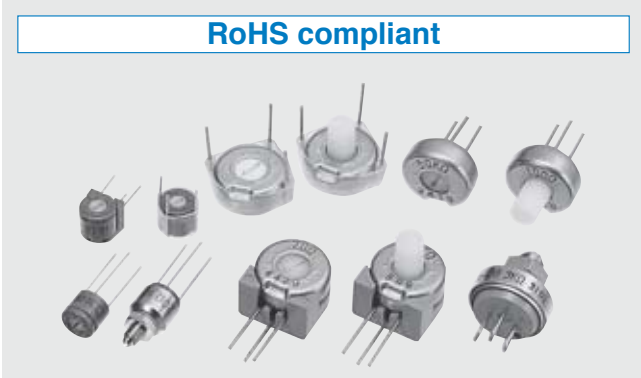


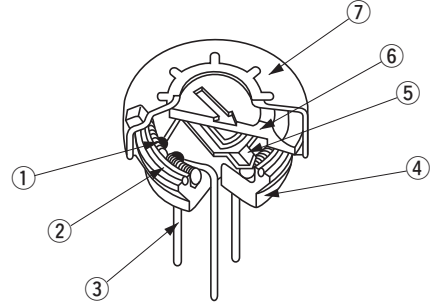
# SINGLE TURN WIREWOUND TRIMMERS

# λ-6/λ-13

## RoHS compliant



## INTERNAL STRUCTURE λ-13T



	Part name	Material	Flammability
①	Resistive element	—	—
②	“O” ring	Silicone rubber	UL-94HB
③	Terminal pin	Nickel, Gold-plated	—
④	Base	DAP	UL-94HB
⑤	Wiper	Copper alloy, Palladium-plated	—
⑥	Wheel	Polyoxymethylene	UL-94HB
⑦	Cover	Stainless steel	—

## FEATURES

- Low temperature coefficient of resistance
- Low contact resistance

## PART NUMBER DESIGNATION

λ - 6      T 10 Ω  
( 1 1 0 6 )

**Series name**

λ -6 : φ 6.6 mm      λ -13 : φ 13.5 mm  
(1106)                      (1113)

※ “λ” may be replaced by 11 for type writing conveniences.

**Product shape**

T : Top adjustment	TR : Top adjustment with knob
S : Side adjustment	SR : Side adjustment with knob
F : Rear adjustment	FR : Rear adjustment with knob
B : Panel mount	

Resistance value

※ Please refer to the LIST OF PART NUMBERS when placing orders.

# λ-6/λ-13 WIREWOUND TRIMMERS

## LIST OF PART NUMBERS

Adjustment position	Dimension	
	φ 6.6 mm	φ 13.5 mm
Top adjustment	λ-6T (1106T)	λ-13T (1113T)
Top adjustment with knob		λ-13TR (1113TR)
Side adjustment	λ-6S (1106S)	λ-13S (1113S)
Side adjustment with knob		λ-13SR (1113SR)
Panel mount	λ-6B (1106B)	λ-13B (1113B)
Rear adjustment	λ-6F (1106F)	λ-13F (1113F)
Rear adjustment with knob		λ-13FR (1113FR)

☐ : Not manufactured

※Verify the above part numbers <Nominal resistance values> (Fig. 1) when placing orders.

## <Nominal resistance values>

	λ-6 (1106)				λ-13 (1113)						
	T	S	B	F	T	TR	S	SR	B	F	FR
10 Ω	●	●	☞	☞	●	☞	●	☞	●	☞	☞
20 Ω	●	●	☞	☞	●	☞	●	☞	●	☞	☞
50 Ω	●	●	☞	☞	●	☞	●	☞	●	☞	☞
100 Ω	●	●	☞	☞	●	☞	●	☞	●	☞	☞
200 Ω	●	●	☞	☞	●	☞	●	☞	●	☞	☞
500 Ω	●	●	☞	☞	●	☞	●	☞	●	☞	☞
1 kΩ	●	●	☞	☞	●	☞	●	☞	●	☞	☞
2 kΩ	●	●	☞	☞	●	☞	●	☞	●	☞	☞
5 kΩ	●	●	☞	☞	●	☞	●	☞	●	☞	☞
10 kΩ	●	●	☞	☞	●	☞	●	☞	●	☞	☞
20 kΩ	●	●	☞	☞	●	☞	●	☞	●	☞	☞
25 kΩ					☞	☞	☞	☞	☞	☞	☞
30 kΩ	☞	☞	☞	☞							
50 kΩ					●	☞	●	☞	●	☞	☞
100 kΩ					●	☞	●	☞	●	☞	☞

Fig. 1

The products indicated by ☞ mark are manufactured upon receipt of order basis.

## ELECTRICAL CHARACTERISTICS

	λ-6 (1106)	λ-13 (1113)
Nominal resistance range	10 Ω ~ 30 kΩ	10 Ω ~ 100 kΩ
Resistance tolerance	± 10 %	
Power rating ※1	0.37 W (70 °C) 0 W (120 °C)	0.75 W (70 °C) 0 W (120 °C)
Electrical continuity	Continuous for full mechanical range	
End resistance	2 % or 1 Ω, whichever is greater	
Resolution	1.42 ~ 0.14 %	1.07 ~ 0.08 %
Peak noise	100 Ω (ENR) maximum	
Operating temp. range	-55 ~ 120 °C	
Temp. coefficient	± 50 10 <sup>-6</sup> /°C maximum	
Insulation resistance	1000 MΩ minimum (DC500 V)	
Dielectric strength	900 Vrms, 1 min (Room conditions)	
Net weight	Approx. 0.34 g (λ-6T) Approx. 0.47 g (λ-6S) Approx. 1.41 g (λ-6B) Approx. 0.39 g (λ-6F)	Approx. 1.60 g (λ-13T) Approx. 2.59 g (λ-13S) Approx. 5.16 g (λ-13B) Approx. 1.73 g (λ-13TR) Approx. 2.72 g (λ-13SR) Approx. 1.86 g (λ-13F) Approx. 1.93 g (λ-13FR)

## MECHANICAL CHARACTERISTICS

	λ-6 (1106)	λ-13 (1113)
Mechanical angle	310 ° (1 turn)	
Operating torque	7.85 mN·m {80 gf·cm} maximum	19.61 mN·m {200 gf·cm} maximum
Stop strength	49.04 mN·m {500 gf·cm} minimum	98.07 mN·m {1 kgf·cm} minimum
Rotational life	200 cycles [ΔR/R ≤ 2 %]	
Terminal strength	8.89 N {907 gf} minimum (Tensile strength MIL-R-27208)	

{ } : Reference only

※1 Rated power is given for the maximum input voltage (V) and maximum wiper current (mA) for the resistance value.

# λ-6/λ-13 WIREWOUND TRIMMERS

## ENVIRONMENTAL CHARACTERISTICS

(In accordance with MIL-R-27208)

Test item	Test conditions	Specifications
Thermal shock	-65 ~ 125 °C, 5 cycles	[ ΔR/R ≤ 1 % + 0.05Ω] [S.S. ≤ 1 % + Resolution]
Humidity	80 ~ 98 %, 240 h	[ ΔR/R ≤ 1 % + 0.05Ω]
Shock	981 m/s <sup>2</sup>	[ ΔR/R ≤ 1 % + 0.05Ω] [S.S. ≤ 1 % + Resolution]
Vibration	Acceleration 196 m/s <sup>2</sup> , 10 ~ 2000 Hz	[ ΔR/R ≤ 1 % + 0.05Ω] [S.S. ≤ 1 % + Resolution]
Load life	70 °C (Full load), 1000 h	[ ΔR/R ≤ 2 %] [S.S. ≤ 2 % + Resolution]
Low temp. operation	-55 °C, 2 h	[ ΔR/R ≤ 1 % + 0.05Ω] [S.S. ≤ 1 % + Resolution]
High temp. exposure	120 °C, 250 h	[ ΔR/R ≤ 1 % + 0.05Ω] [S.S. ≤ 1 % + Resolution]
Immersion seal	85 °C	No leaks
Salt spray	No corrosion	—
Soldering heat	350 °C, 3 s	—

ΔR/R : Change in total resistance  
S.S. : Setting stability

## RESOLUTION CHARACTERISTICS

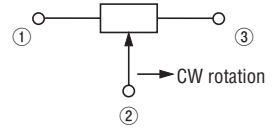
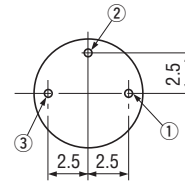
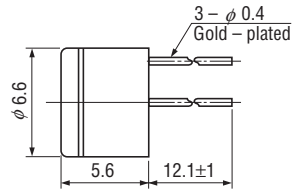
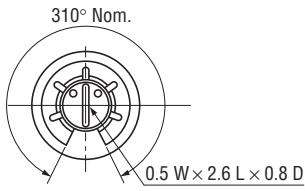
Nominal resistance values (Ω)	Resolution (%)	
	λ -6 (1106)	λ -13 (1113)
10	1.42	1.07
20	1.14	0.83
50	0.91	0.71
100	0.74	0.57
200	0.56	0.42
500	0.54	0.35
1 k	0.48	0.40
2 k	0.34	0.27
5 k	0.28	0.20
10 k	0.22	0.19
20 k	0.17	0.12
25 k	—	0.11
30 k	0.14	—
50 k	—	0.10
100 k	—	0.08

# λ-6/λ-13 WIREWOUND TRIMMERS

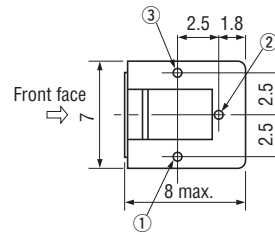
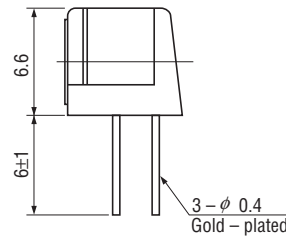
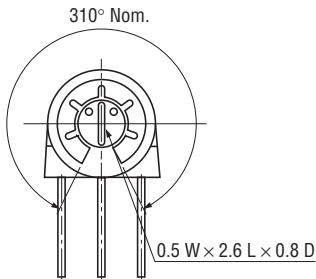
## OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.2 (Unit : mm)

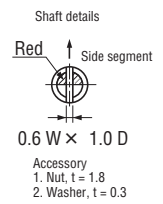
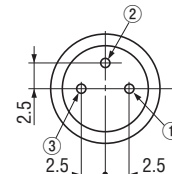
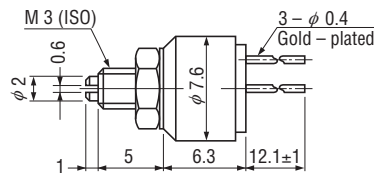
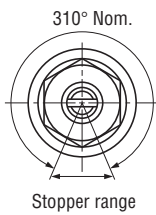
### ● λ-6T (1106T) Top adjustment



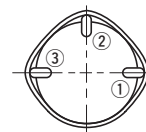
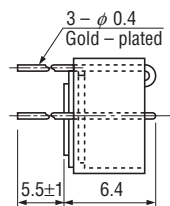
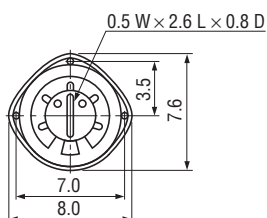
### ● λ-6S (1106S) Side adjustment



### ● λ-6B (1106B) Panel mount



### ● λ-6F (1106F) Rear adjustment

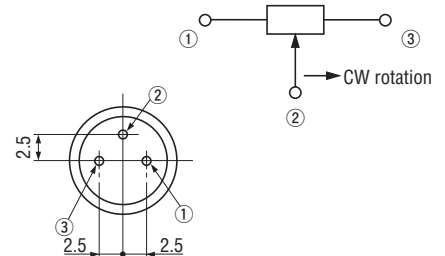
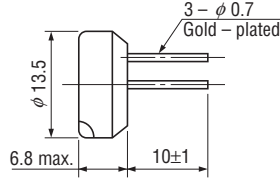
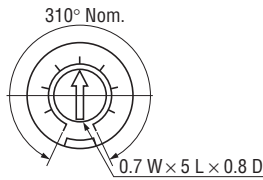


# λ-6/λ-13 WIREWOUND TRIMMERS

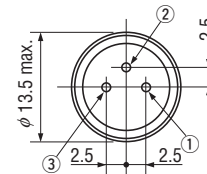
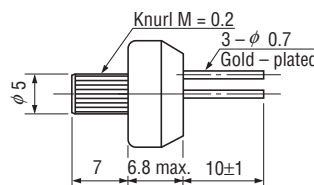
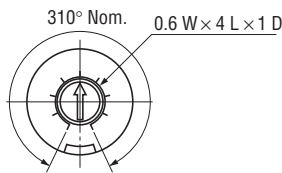
## OUTLINE DIMENSIONS

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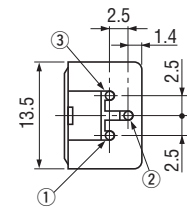
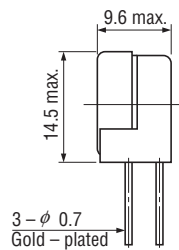
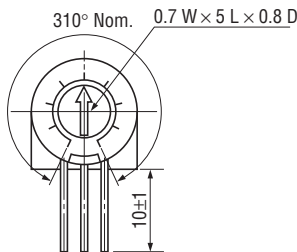
### ● λ-13T (1113T) Top adjustment



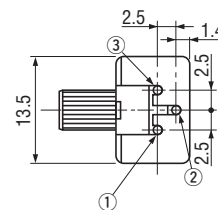
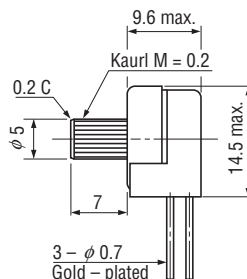
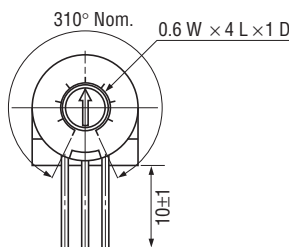
### ● λ-13TR (1113TR) Top adjustment with knob



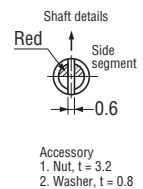
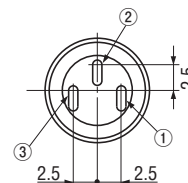
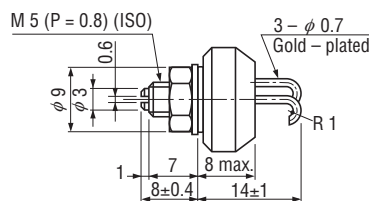
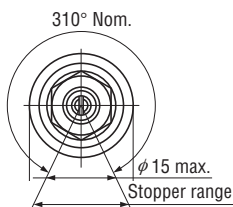
### ● λ-13S (1113S) Side adjustment



### ● λ-13SR (1113SR) Side adjustment with knob



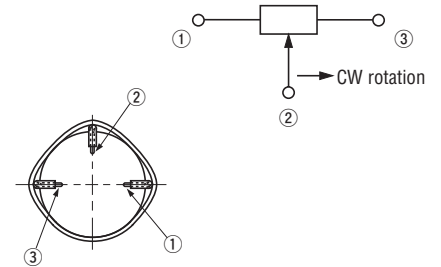
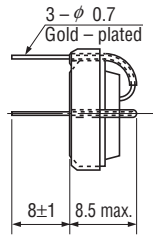
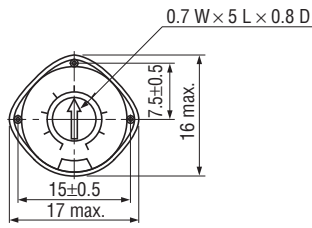
### ● λ-13B (1113B) Panel mount



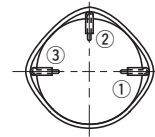
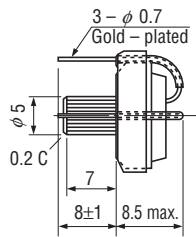
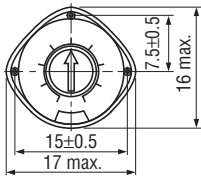
# λ-6/λ-13 WIREWOUND TRIMMERS

## OUTLINE DIMENSIONS

### ● λ-13F (1113F) Rear adjustment



### ● λ-13FR (1113FR) Rear adjustment with knob





## Стандарт Электрон Связь

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