

# Potentiometer

## 16mm Rotary Potentiometers

### KLS4-WH148 Series

#### Mechanical specifications:

Total rotation angle:  $300^{\circ} \pm 5^{\circ}$   
Rotation torque:  $2 \sim 20 \text{mN.m}$  ( $20 \sim 200 \text{gf.cm}$ )  
Shaft stop strength:  $6 \text{Kgf.cm}$   
Push pull strength:  $60 \text{N}$   
Rotary life: 10000 cycles  
Click position: Center detent or 10,20,40, position clicks

#### Electrical specifications:

Total resistance:  $5 \text{K}\Omega \sim 2 \text{M}\Omega$   
Resistance taper: A, B, C  
Resistance tolerance:  $\pm 20\%$   
Rotational noise:  $\leq 47 \text{ mV}$   
Residual resistance:  $R \geq 250 \text{K}\Omega$  0.1% max.of total resistance  
 $250 \text{K}\Omega > R > 10 \text{K}\Omega$  20  $\Omega$  max  
 $10 \text{K}\Omega \geq R$  10  $\Omega$  max  
Tracking error: 0  $\sim$  -40dB 3 dB  
Rated wattage: Curve B: 0.125W; Other than B: 0.063 W  
Max, operating voltage: Curve B: 200 V; Other than B: 150 V  
Dielectric: AC500V, 1 minute  
Insulation resistance: More than  $100 \text{M}\Omega$  at DC500V

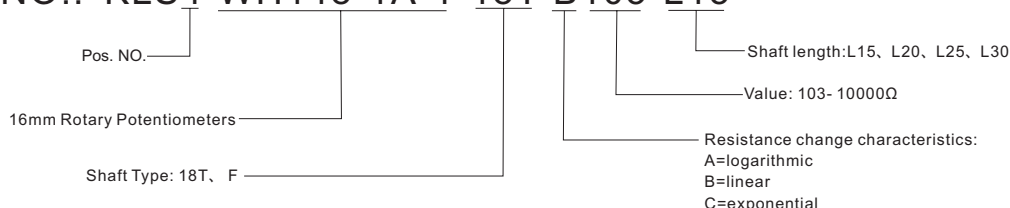


VI

| 18T |  | L          | 15 | 20 | 25 | 30 | F |  | L          | 15 | 20 | 25 | 30 |
|-----|--|------------|----|----|----|----|---|--|------------|----|----|----|----|
|     |  |            |    |    |    |    |   |  |            |    |    |    |    |
|     |  | l          |    |    |    |    |   |  | F          |    |    |    |    |
|     |  | 7 12 12 12 |    |    |    |    |   |  | 7 12 12 12 |    |    |    |    |

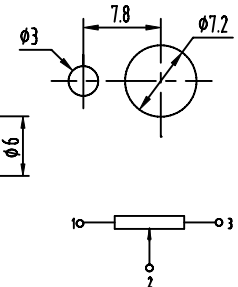
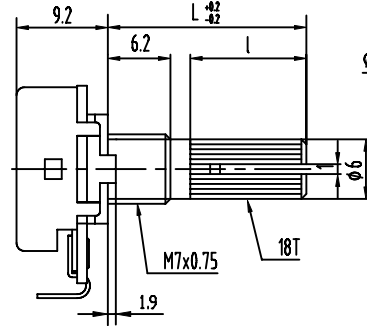
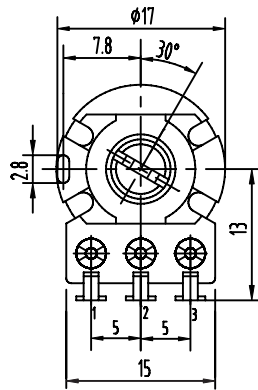
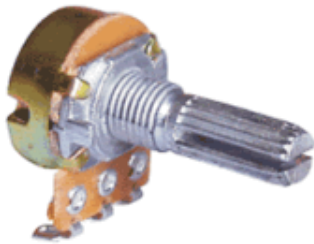
## ORDER INFORMATION

Product NO.: KLS4-WH148-1A-1-18T-B103-L15

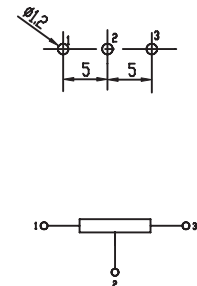
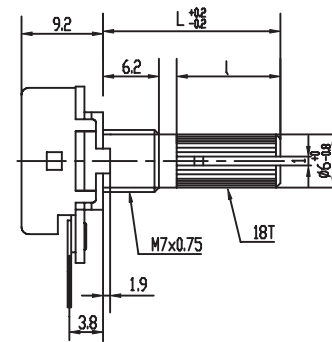
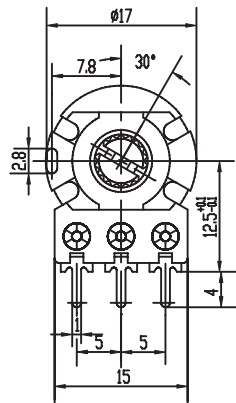


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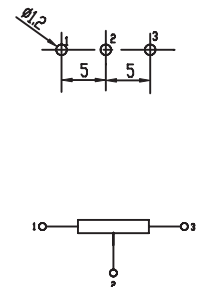
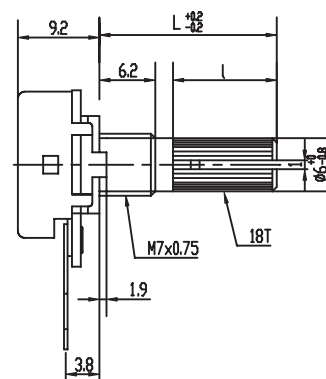
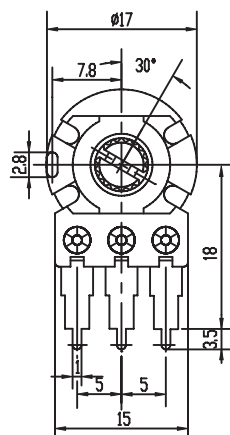
WH148-1A-1



WH148-1A-2



WH148-1A-3



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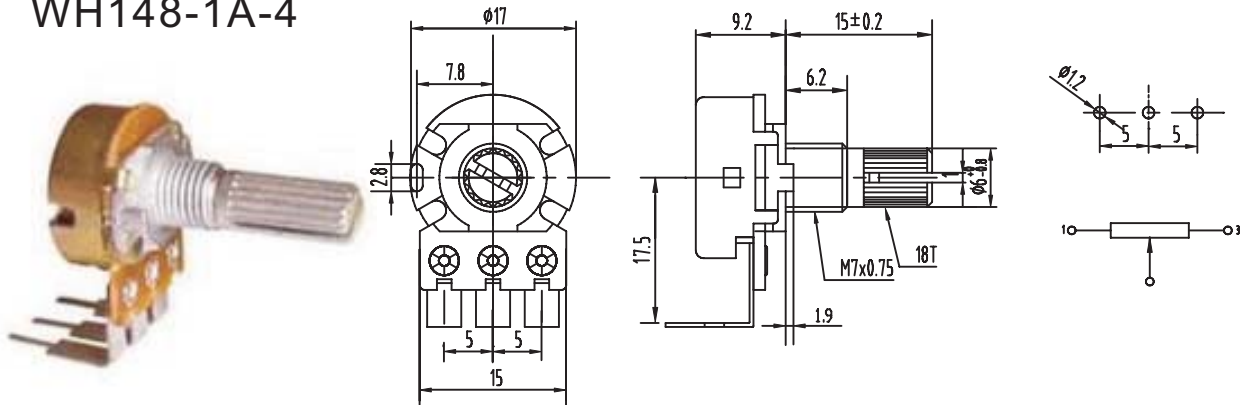
Product NO.: KLS4-WH148-1A-1-18T-B103-L15

Pos. NO. \_\_\_\_\_  
16mm Rotary Potentiometers \_\_\_\_\_  
Shaft Type: 18T, F \_\_\_\_\_  
Shaft length: L15, L20, L25, L30 \_\_\_\_\_  
Value: 103- 10000Ω \_\_\_\_\_  
Resistance change characteristics:  
A=logarithmic  
B=linear  
C=exponential

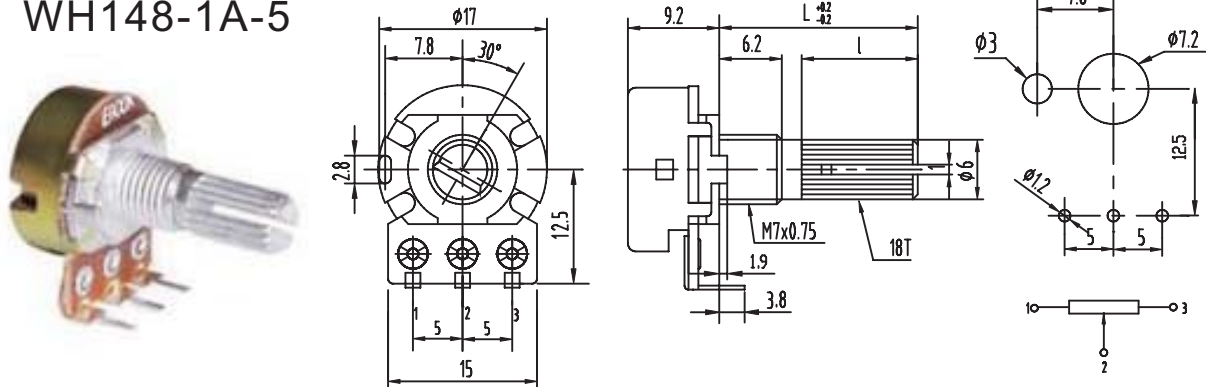
# Potentiometer

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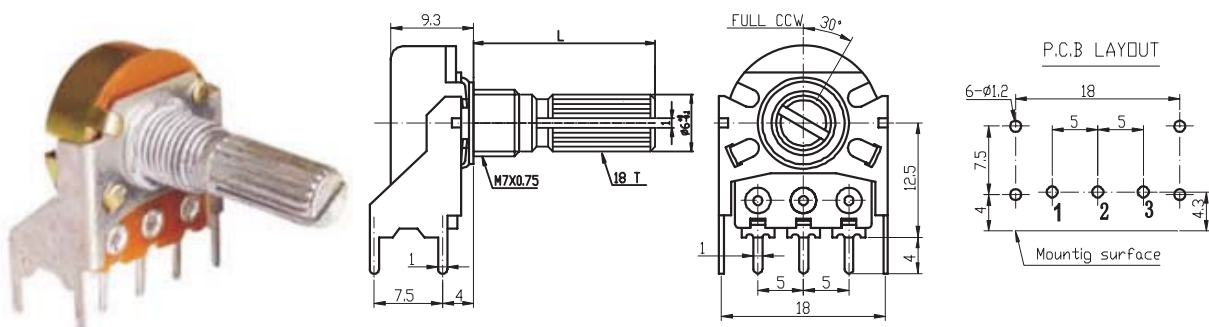
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WH148-1A-5



WH148-1A-2S-18T



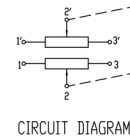
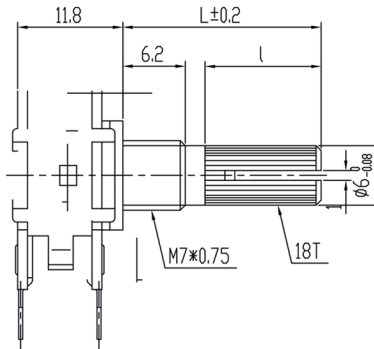
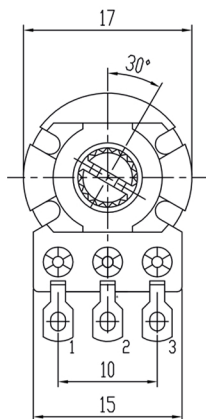
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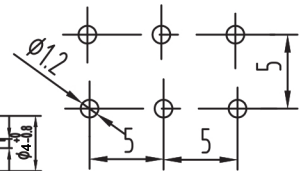
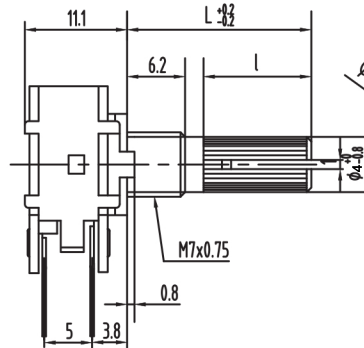
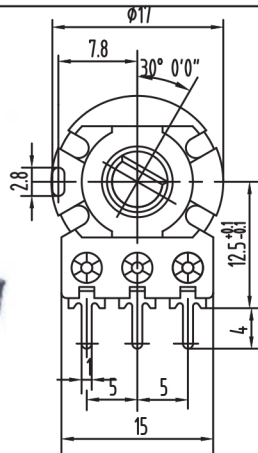
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Shaft Type: 18T, F \_\_\_\_\_  
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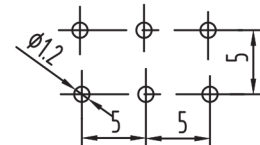
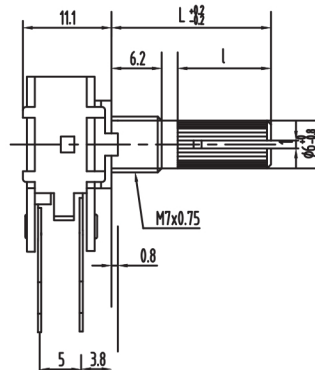
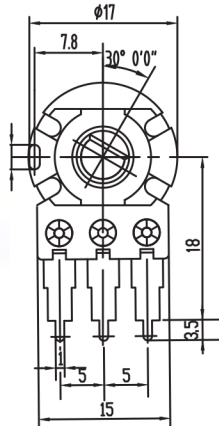
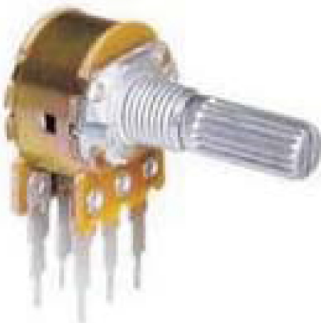
WH148-1B-1



WH148-1B-2

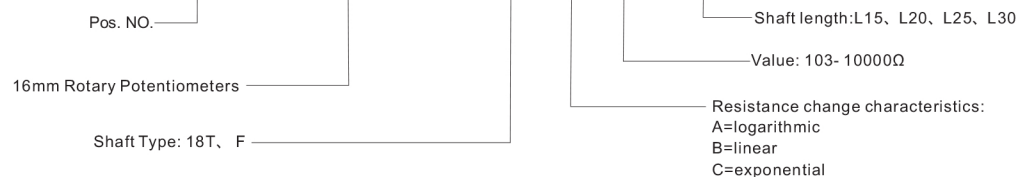


WH148-1B-3



## ORDER INFORMATION

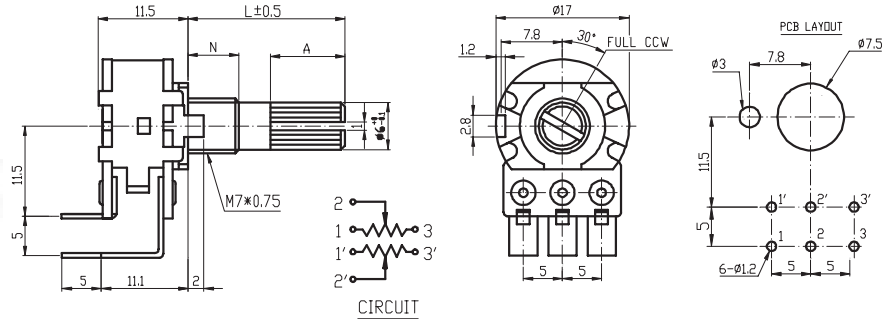
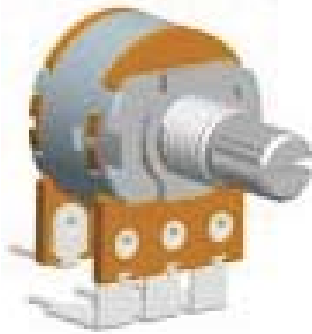
Product NO.: KLS4-WH148-1A-1-18T-B103-L15



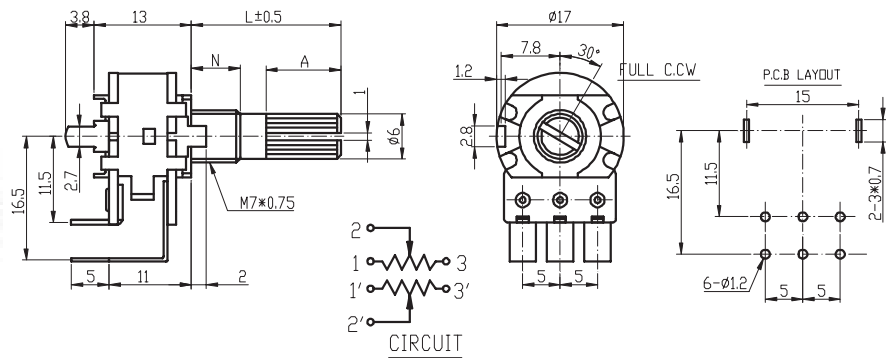
# Potentiometer

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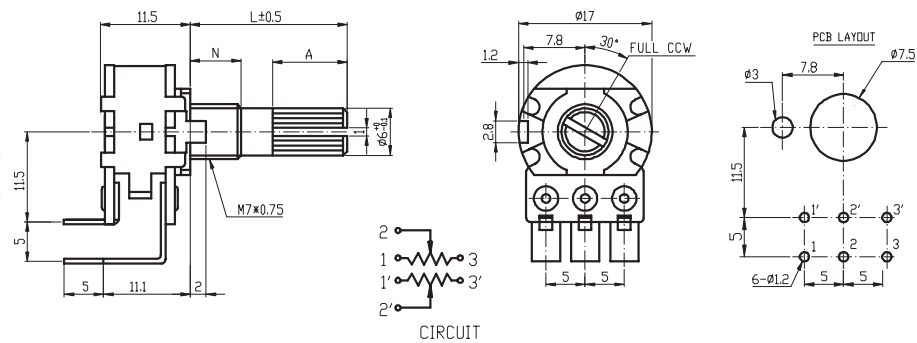
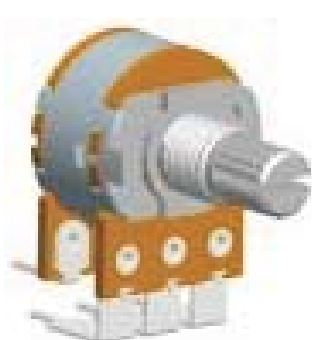
### WH148-1B-4



### WH148-1B-4J

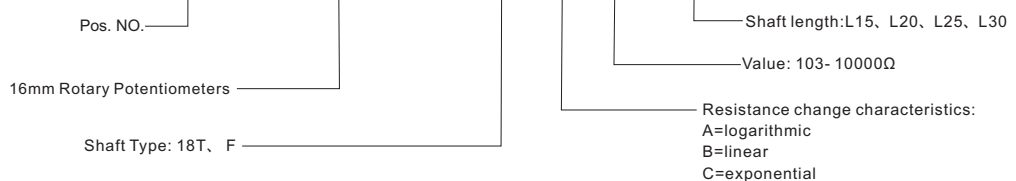


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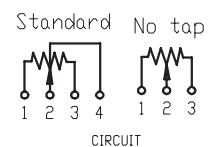
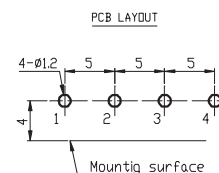
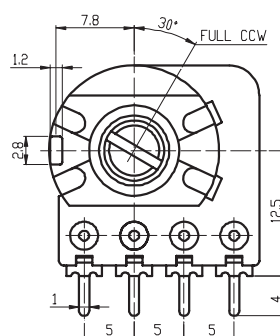
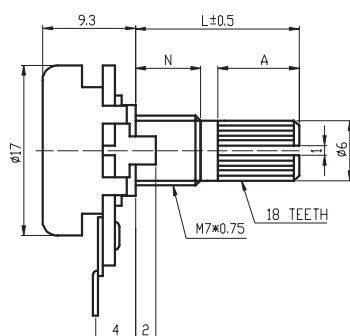
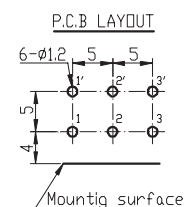
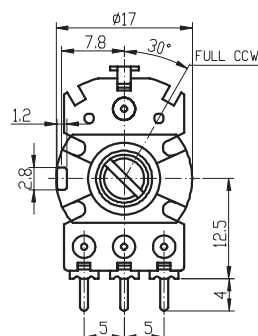
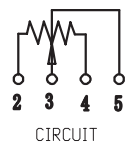
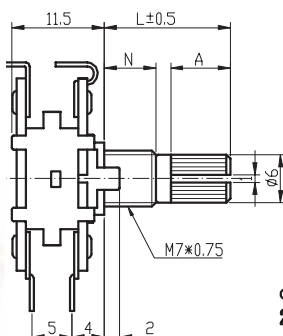
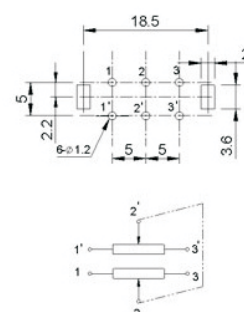
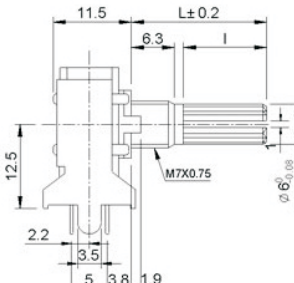
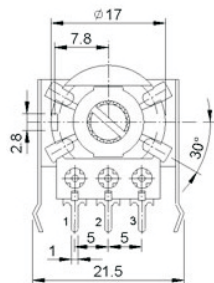
## ORDER INFORMATION

Product NO.: KLS4-WH148-1A-1-18T-B103-L15



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## VI



Product NO.: KLS4-WH148-1A-1-18T-B103-L15

Pos. NO. \_\_\_\_\_

16mm Rotary Potentiometers \_\_\_\_\_

Shaft Type: 18T, F \_\_\_\_\_

Shaft length: L15, L20, L25, L30 \_\_\_\_\_

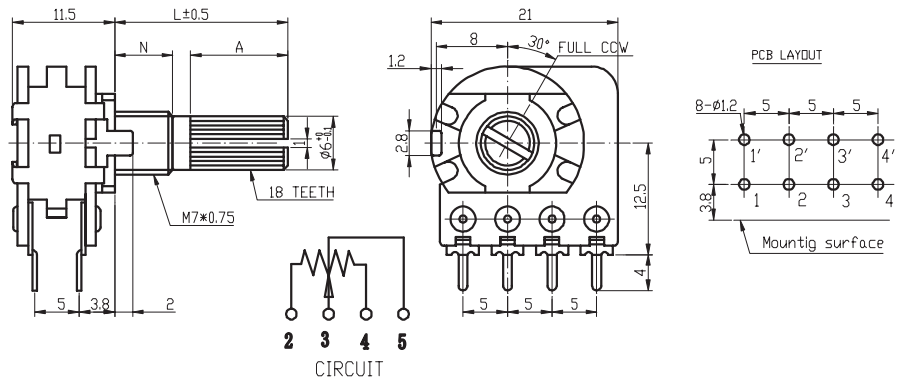
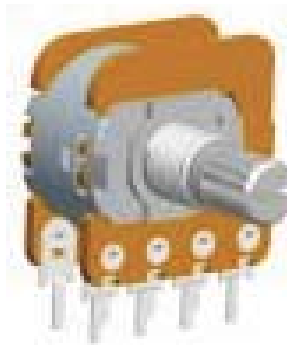
Value: 103- 10000Ω \_\_\_\_\_

Resistance change characteristics:  
A=logarithmic  
B=linear  
C=exponential

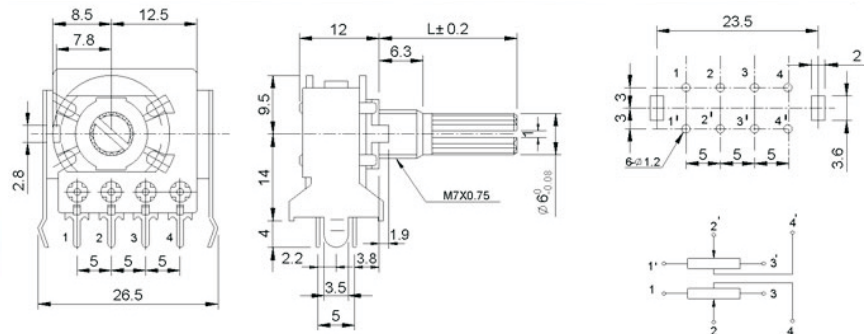
All specification & dimensions are subject to change, please call your nearest KLS sales representative for update information

## 16mm Rotary Potentiometers

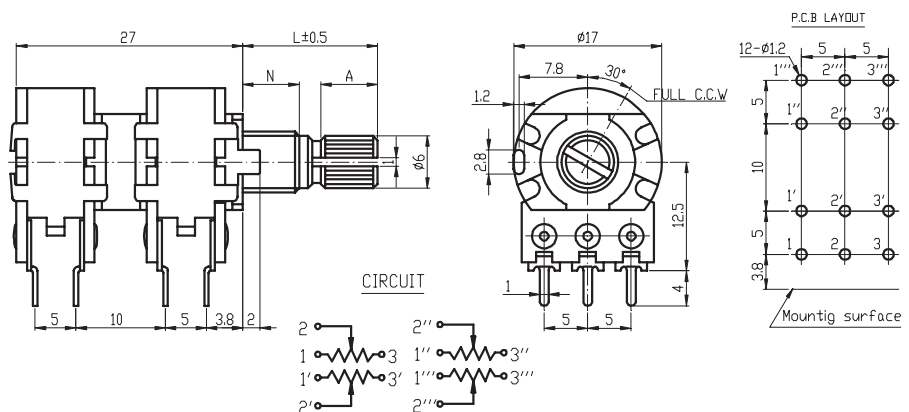
### WH148-3B-2



### WH148-3B-2J



### WH148-4B



## ORDER INFORMATION

Product NO.: KLS4-WH148-1A-1-18T-B103-L15

Pos. NO. \_\_\_\_\_

16mm Rotary Potentiometers \_\_\_\_\_

Shaft Type: 18T, F \_\_\_\_\_

Shaft length: L15, L20, L25, L30 \_\_\_\_\_

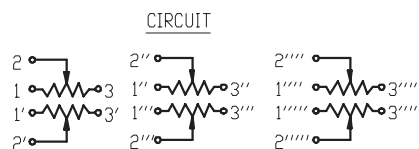
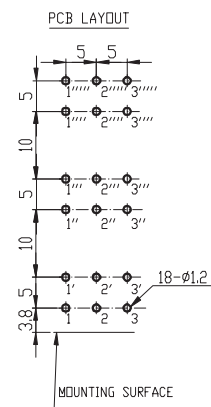
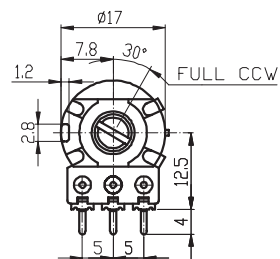
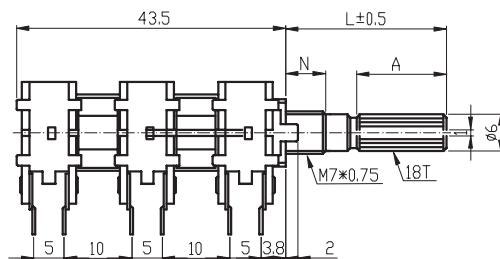
Value: 103- 10000 $\Omega$  \_\_\_\_\_

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## VI



The image shows three potentiometers. The one on the right is a standard potentiometer with a metal shaft and a knurled knob. The two on the left are rotary switches, which have a similar body but lack the central shaft and knob. All three have a red plastic housing and a brass-colored metal shell.



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