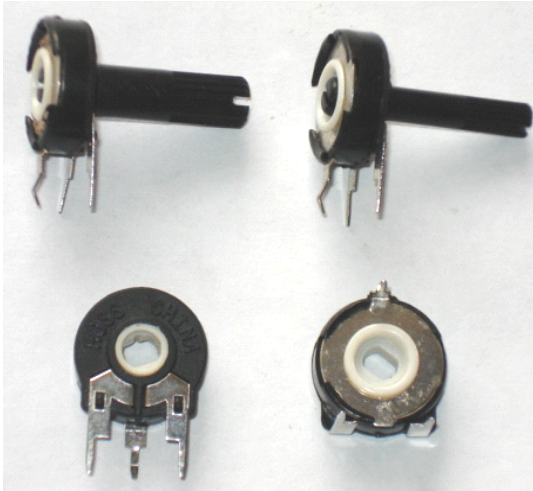




## PT15 Carbon Trimmer potentiometer



### FEATURES

- Carbon resistive element
- Cermet resistive element
- Dust proof enclosure
- Polyester substrate
- Low cost
- Low torque option
- Long life models (10000cycles)
- Simple construction
- Mechanical detents

### MAIN SPECIFICATION

Range of value: 100~5M ohm

(Other upon request)

Tolerance: 100~1M ohm.....±20%

1M~5M ohm.....±30%

( Non standard tolerance, upon request)

Residual resistance:  $lin \leq 5 \times 10^{-3} R_n$  (2ohm min)

$Log \text{ lin} \leq 1 \times 10^{-3} R_n$  (2ohm min)

$Fin \leq 2 \times 10^{-3} R_n$  (2ohm min)

Equivalent noise resistance:  $\leq 3\% R_n$

Contact resistance:  $\leq 5\% R_n$

Max voltage: 250V(lin); 200V(no lin)

Power rating: 0.25W ~0.13W

(depending on models)

Operating temperature:  $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Taper: Linear, Log, Alog

Temperature coefficient:  $\pm 500\text{ppm}/^{\circ}\text{C}$

Wiper torque: 0.5~2.5Ncm

Angle of rotation(mechanical):  $265^{\circ} \pm 5^{\circ}$

Electrical Life:  $\leq \pm 4\%$

Mechanical Life:  $> 100\text{ohm} \pm 7\%$ ,  $> 1\text{Mohm} \pm 8\%$

Solderability:  $\geq 95\%$  of surface covered

Damp heat:  $\leq \pm 6\%$

Temperature cycling:  $\leq \pm 5\%$

Soldering effeor:  $\leq \pm 2\%$

Vibration:  $\leq \pm 2\%$

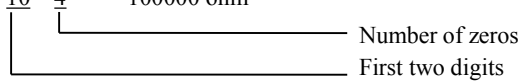
**HOW TO ORDER**

e.g.: **PT10LH2.5105A2020EGR**

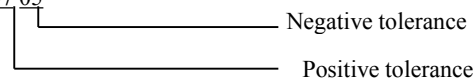
<b>PT15</b>	<b>L</b>	<b>H2.5</b>	<b>105</b>	<b>A</b>	<b>2020</b>	<b>E</b>	<b>GR</b>	
<b>Series</b>	<b>Rotors</b>	<b>Mounting Method</b>	<b>Value</b>	<b>Taper</b>	<b>Tolerance</b>	<b>Life</b>	<b>Shaft/rotor colour</b>	
PT15	L	V(12.5)	101=100ohm	A=Lin B=Log C=Alog	2020=±20% 3030=±30% 1010=±0% 0705=+7%~-5%	Standard 200,500 Long life 10000(E)	RO=Red NE=Black VE=Green AM=Yellow AZ=Blue MA=Brown GR=Grey NA=Orange CR=Cream (See note 3)	
	M	V(15)	221=220ohm					
	N	Va(12.5)	104=100Kohm					
	G	VD(15)	105=1Mohm					
	V	V(17.5)	505=5Mohm					
	X	D	(See note 1)					(See note2)
	W	H(2.5)						
	Y	H(5)						
	Z	hc(5)						

Note:

(1)Value: Code 10 4 = 100000 ohm



(2)Tolerance(non standard):Upon request: Code e.g. +7 -5 = 07 05



(3)Potentiometer without shaft: only rotors Potentiometer with shaft: only shaft Cream colour only available in standard plastic.

**STANDARD OPTIONS**

- Mechanical life.....500cycles
- Packing.....Bulk
- Rotor colour.....White
- Wiper position.....Initial
- Shaft colour.....Natural
- Rotor colour.....White

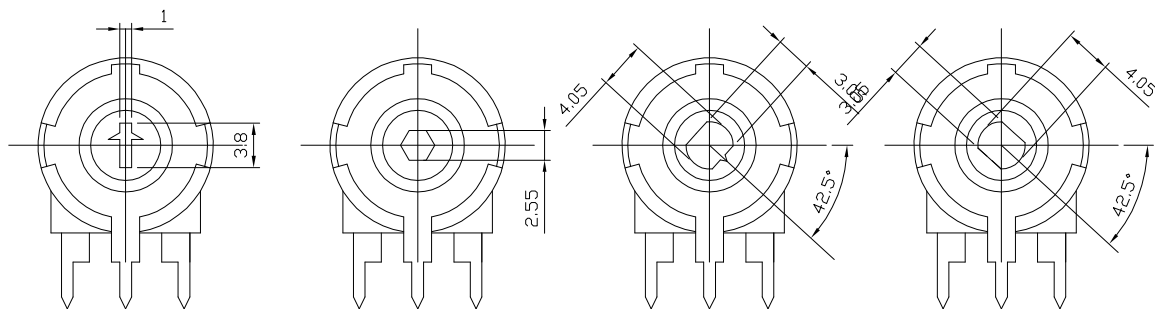
**HOW TO ORDER CUSTOM DRAWING**

PT15LH01 224 + DRAWING NUMBER

This way of ordering should be used for options which are not included in the “HOW TO ORDER” standard and optional extras.

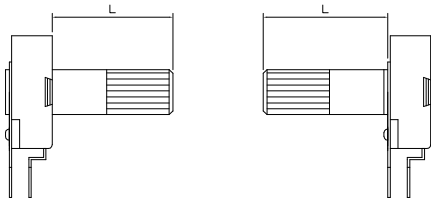
**ROTORS**

**Without shaft**



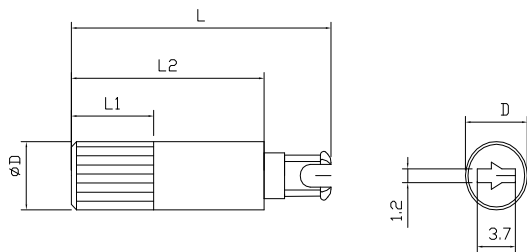
- L=Screw driver thru hole
- M=Hexagonal thru hole
- N=Removable shaft
- G=Removable shaft or thumbwheel

**With shaft**



X=Adjustable from collector side

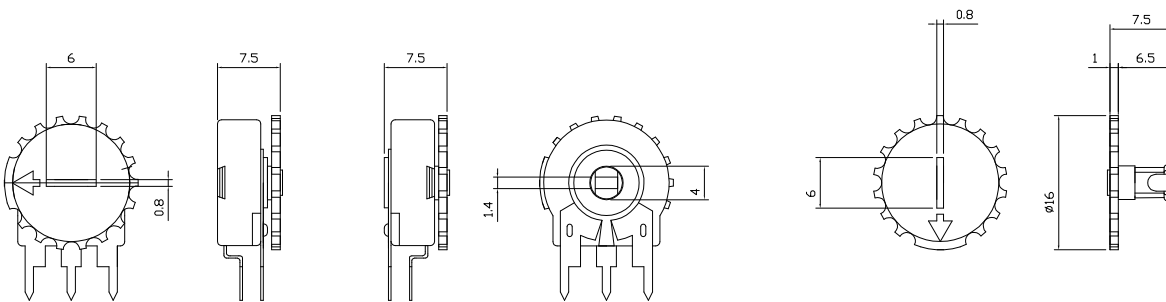
W=Adjustable from terminal side



**Modle shafts**

Ref.	L	L1	L2
0117	18.2	8	11.7
0150	21.5	8	15
0187	25.2	8	18.7

**With thumbwheel**

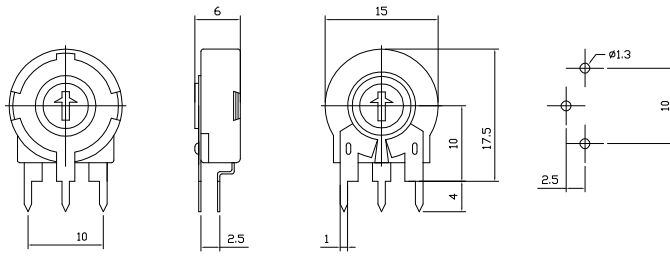


Y=Adjustable from terminal side

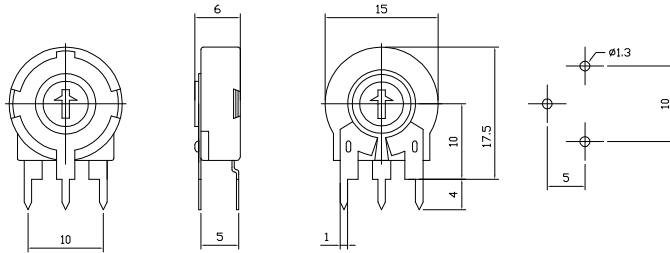
Z=Adjustable from collector side

**VERTICAL MOUNTING-HORIZONTAL ADJUSTMENT**

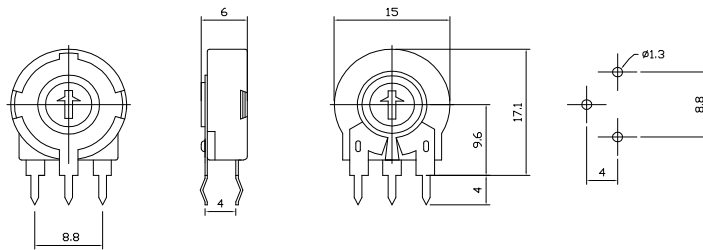
h(2.5)



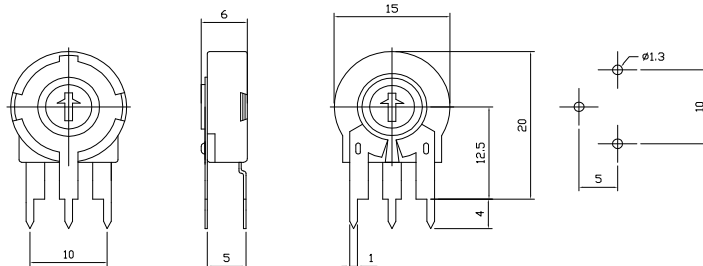
h(5)



B

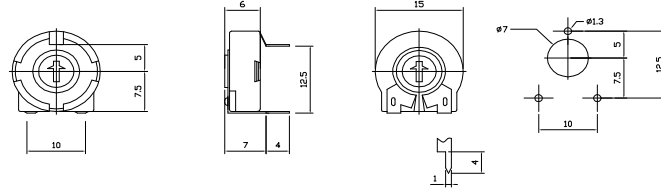


hc(5)

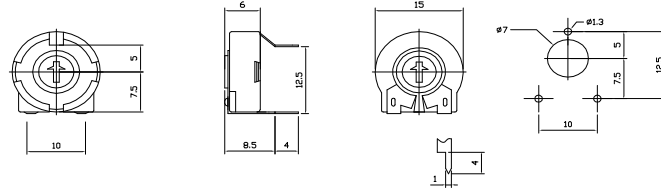


**HORIZONTAL MOUNTING-VERTICAL ADJUSTMENT**

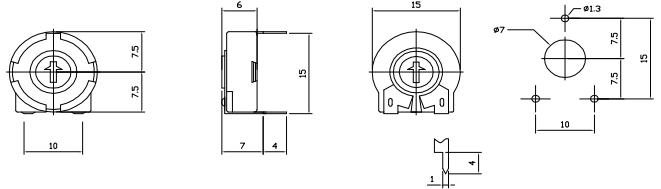
v<12.5>



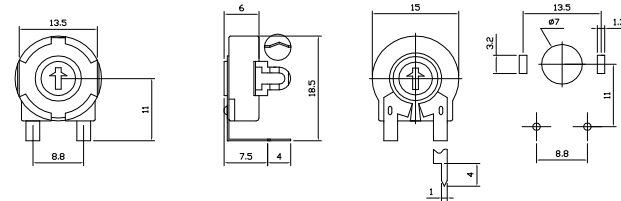
V<sub>a</sub><12.5>



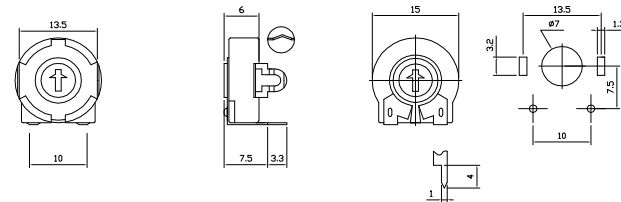
V<15>



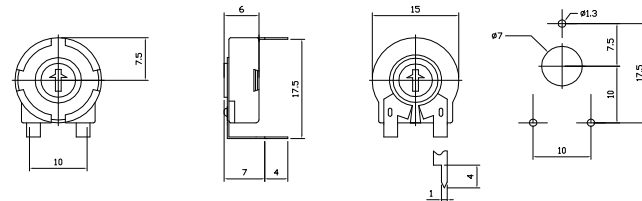
D



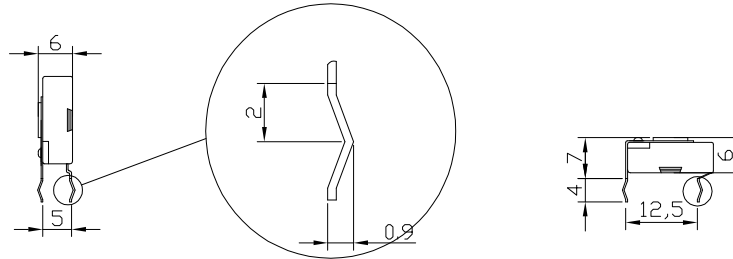
VD<15>



V17.5



**CRIMPED TERMINALS (DETAIL)**

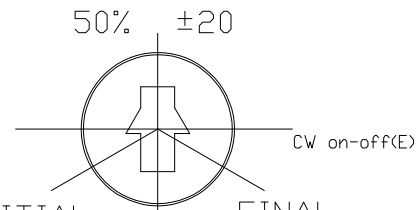


**OPTIONS**

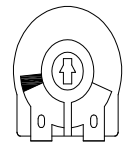
**Available wiper position**

**Cut Track**

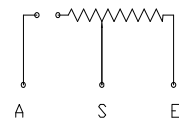
CCW on-off(A)



Std.Position=CCW

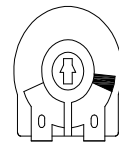


A E

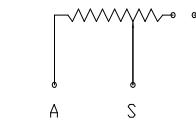


A S E

A=Initial  
S=Wiper  
E=Final



A E



A S E

**PACKAGING**

MODEL	Pieces/UNITS
<i>No shaft</i>	<b>200</b>
<i>With shaft</i>	<b>100</b>
With shaft exceeding 19mm	<b>50</b>

NOTE: Out of range values may not comply with these results

**How to order detent types:**

<i>Standard</i>	<i>Optional Extras</i>
PT 15	P 1 3
Series	Detents
PT-15	P 0 5
PTC-15	P 1 3

**DETENT CONFIGURATIONS****PT-15:A=34.5°**

**Relative detent positions  
along the total mechanical  
travels.**

**Unless otherwise specified  
the detents are evenly  
spaced.**

**(Using the end points as  
reference)**