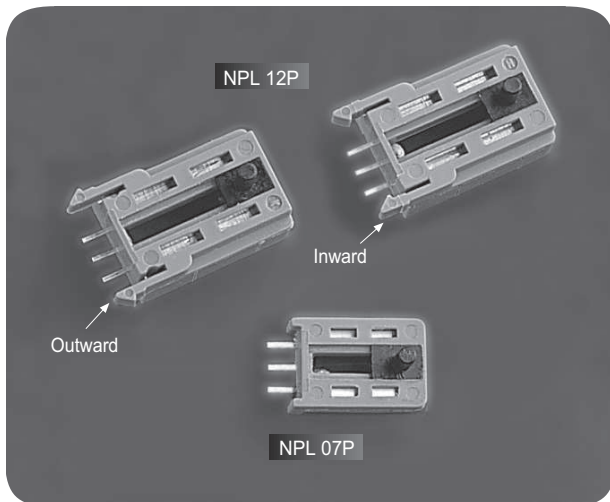




FEATURES

- High reliability
- Simple construction (only 3 component parts)
- Over-moulding manufacturing technique
- Plastic or metal clip versions available
- Various fixation means: clip type (inward/outward actuating), locating pins,...

TYPICAL APPLICATIONS

Provides a low cost, highly reliable solution for all position sensing applications:

- Automotive seat position memory, central locking, headlamp position and rear-view mirror position sensors.

MECHANICAL SPECIFICATIONS

Mechanical travel:

- NPL07.....7,25mm
- NPL08.....8mm
- NPL12.....12mm

Electrical travel: (see how to order)

Sliding force: $\leq 2N$ @ 10mm/sec

Stop strenght: 30N for 5 secs

ELECTRICAL SPECIFICATIONS

Range of values: 1K to 100K ohms

Tolerance: $\pm 30\%$

Max. voltage*: 50 VDC to 100 VDC

Power rating*: 0.20 W @ 50°C

Operating temperature: -40°C to +105°C

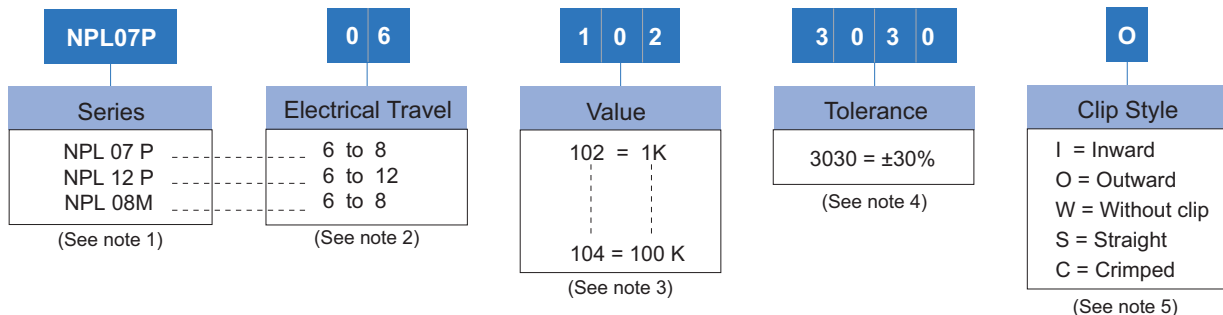
Taper**: Linear

Relative linearity**: $\pm 2\%$

Mechanical Life: 50K cycles

* Depending on model ** Others check availability

HOW TO ORDER



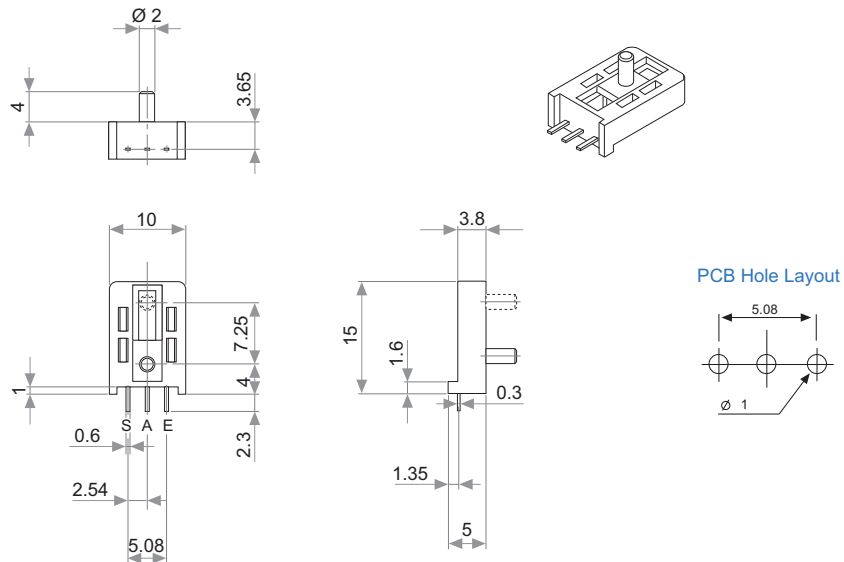
NOTES:

- (1) Suffixes: P = Plastic, M= Metal
- (2) Each NPL series has its own Electrical Travel range as shown.
- (3) Value Example: Code: 10 2 $\rightarrow$ 1k Ω
 $\rightarrow$ Number of zeros
 $\rightarrow$ First two digits of the value.
- (4) Non standard tolerance, check Example: +25% Code: 25 20
 $\rightarrow$ negative tolerance
 $\rightarrow$ positive tolerance
- (5) S and C options only available for NPL08M (metal version)
W option only available for NPL07P
I and O options only available for NPL12P

NOTE: The information contained here should be used for reference purposes only.
This project has been financially supported by the Spanish Technological Development Institute (CDTI).

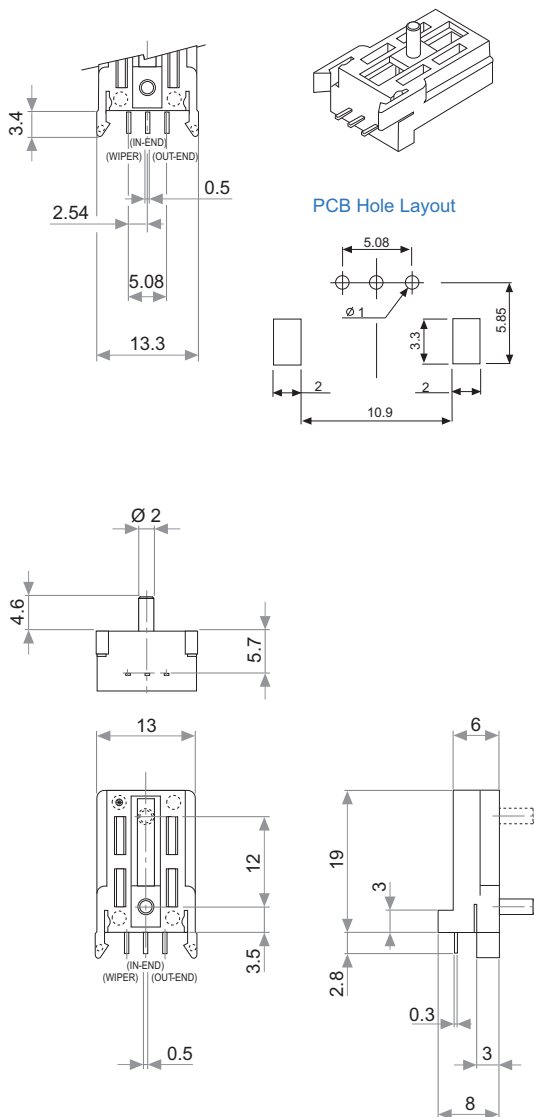


PLASTIC VERSION NPL-07P

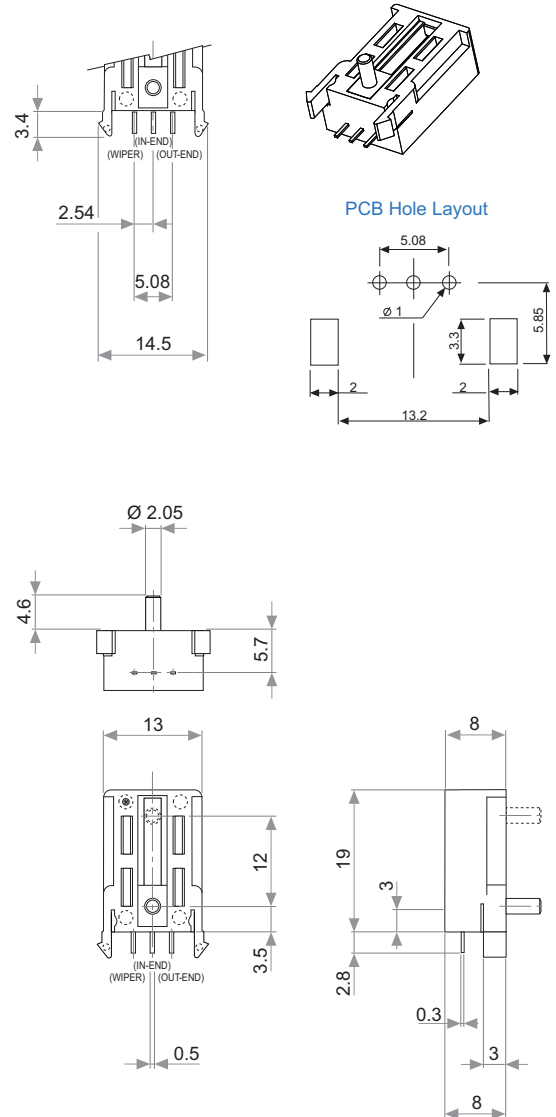


PLASTIC VERSION NPL-12P

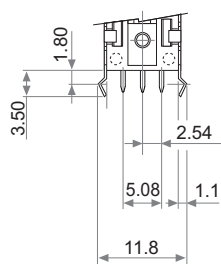
INWARD FACING CLIPS



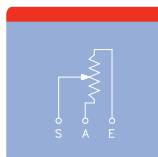
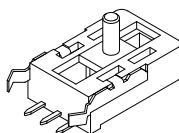
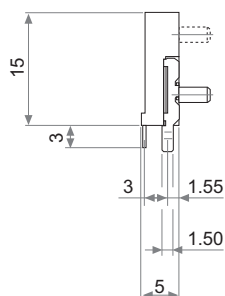
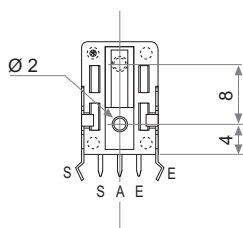
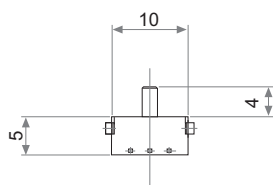
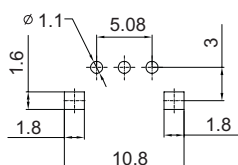
OUTWARD FACING CLIPS



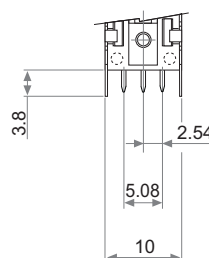
CRIMPED



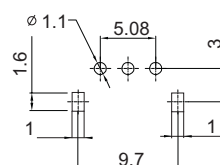
PCB Hole Layout



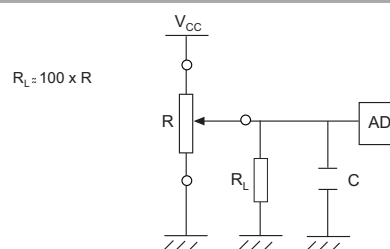
STRAIGHT



PCB Hole Layout



Piher potentiometer's recommended connection circuit for a position sensor or control application.(voltage divider circuit electronic design).



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