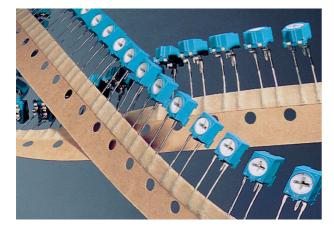
PIHER



MECHANICAL SPECIFICATIONS

- Mechanical rotation angle:	280° ± 10°
- Electrical rotation angle:	245° ± 25°
– Torque:	0.2 to 3 Ncm. (0.28 to 4.2 in-oz)
- Stop torque:	> 7.5 Ncm. (10.5 in-oz)

N-6 6 mm Carbon Potentiometer

FEATURES

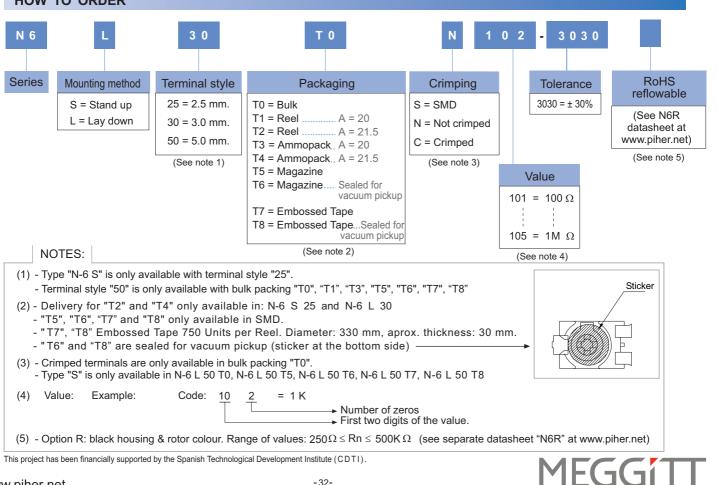
- RoHS compliant materials.
- Carbon resistive element.
- Plastic substrate.
- Over-moulding manufacturing technique.
- SMD or through hole.
- Embossed Tape (for SMD), Tape on reel, Ammopack and Magazine packaging for automatic insertion and bulk for manual assembly.
- Wiper positioned at 50%.
- Both sides cross slot easy adjustment.
- Accidental rotor movement protected.
- Traceability insured through date code marking.
- Assembly method: stand up and lay down.

ELECTRICAL SPECIFICATIONS

- Range of values * $100\Omega \le Rn \le 1M\Omega (1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)$
- Tolerance*: $100\Omega \le Rn \le 1M\Omega$ $\pm 30\%$
- Max. Voltage: 100 VDC
- Nominal Power 50°C (122°F) (see power rating curve): 0.1W
- Taper: linear
- End resistance: $\leq 2\%$ Rn (10 Ω min.)
- Equivalent noise resistance: ≤ 5% Rn
- Operating temperature** : -25°C + 70°C (-13°F + 158°F)

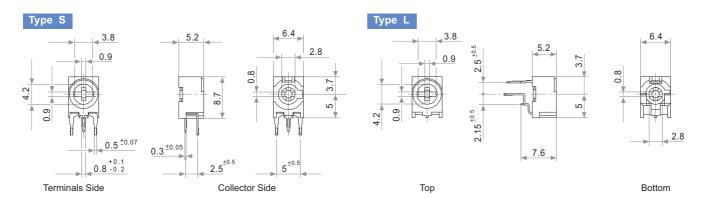
* Others check availability

** Up to 85°C depending on application

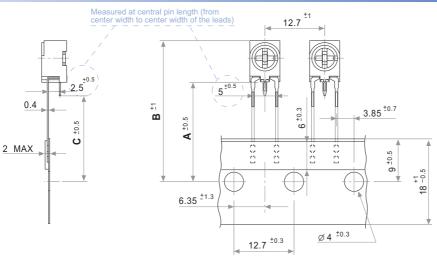


HOW TO ORDER

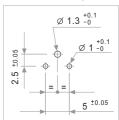
MOUNTING METHOD



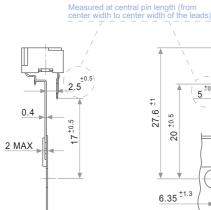
TAPE

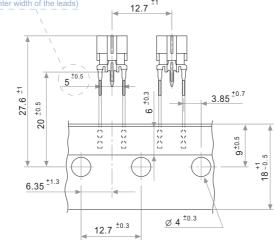


PCB Hole Layout

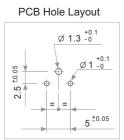


MODEL	Α	В	С
N-6 S 25 T1 / T3	20	28.7	17
N-6 S 25 T2 / T4	21.5	30.2	18.5

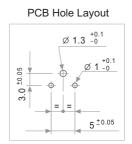




±1

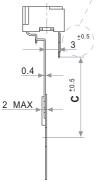


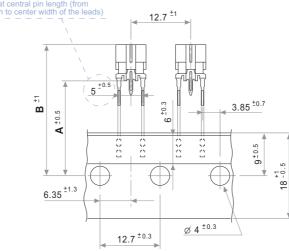
N-6 L 25 T1 / T3



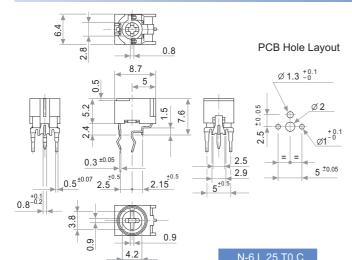
MODEL	Α	в	С
N-6 L 30 T1 / T3	20	27.6	17
N-6 L 30 T2 / T4	21.5	29.1	18.5







BULK TYPE L



N-6 L 25 T0 C

0.5

0+1

¢ ¢

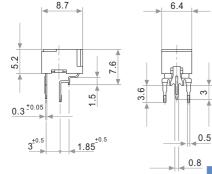
> = =

PCB Hole Layout

Ø 1.3 +0.1

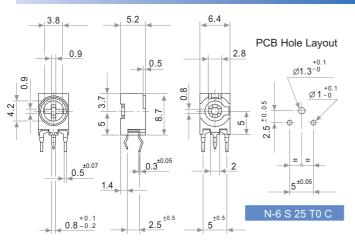
Ø 1 +0.1

5 -0.05





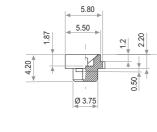
BULK TYPE S

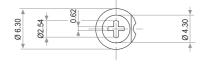


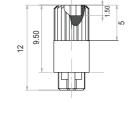
KNOB Ref.: 5680

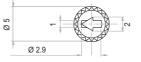


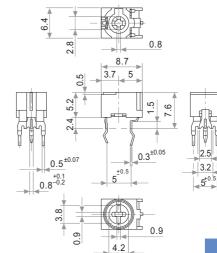
Please order both Knob and Shaft separately. If you wish to use your own custom plastic shaft/knob/actuator please contact Piher for advice about compatible materials.



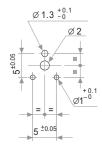




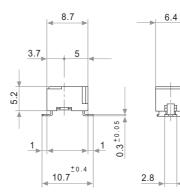


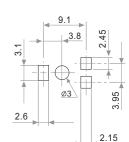


PCB Hole Layout



N-6 L 50 T0 C



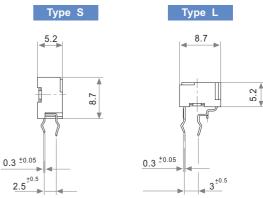


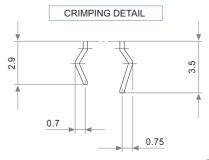
PCB Hole Layout

6.2

N-6 L 50 T0 S

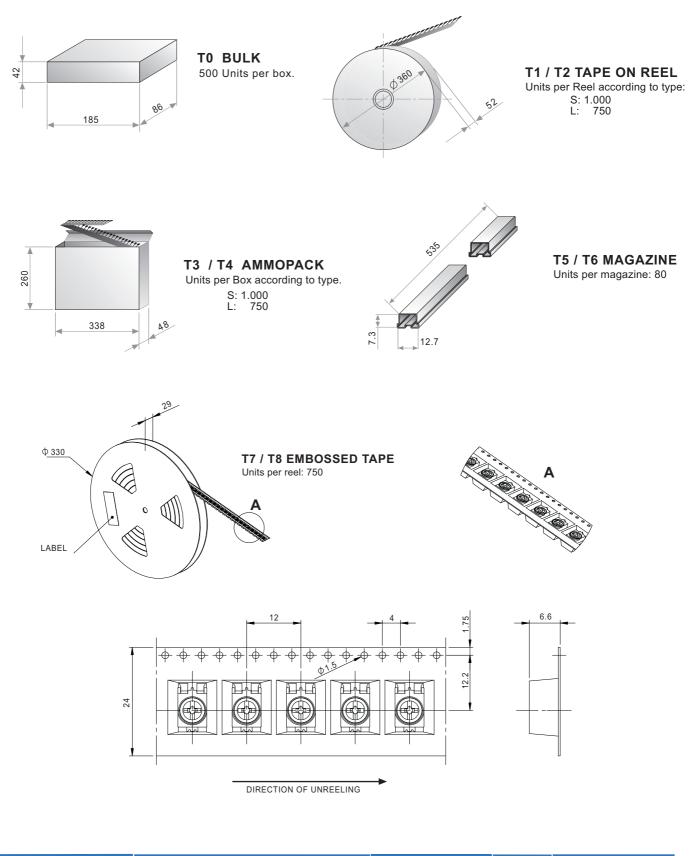
CRIMPING DETAIL "C"





www.piher.net

PIHER



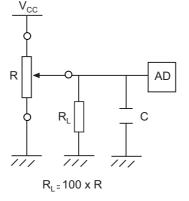
AVAILABLE		TAPE			MAG	AZINE	EMB.	BU	LK
COMBINATIONS	T1	Τ2	Т3	Τ4	Т5	Т6	T7/T8	SMD	CRIMP
N-6 S 25	•	•	•	•					•
N-6 L 25	•		•						•
N-6 L 30	٠	•	•	•					•
N-6 L 50	•		•		٠	•	•	•	•

TESTS		TYPICAL VARIATIONS	POWER RATING CURVE
ELECTRICAL LIFE	1.000 h. @ 50°C: 0.1 W	±10 %	W (%)
MECHANICAL LIFE (CYCLES)	100 @ 10 CPM15 CPM	±3 % (Rn < 1 M Ω)	100 %
TEMPERATURE COEFFICIENT	–25°C; +70°C	±300 ppm (1K≤ Rn ≤100K)	
THERMAL CYCLING	16 h. @ 85°C; 2h. @ –25°C	±5 %	40 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %	
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz 55 Hz.	±2 %	50° 70° ► 50°

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

RECOMMENDED CONNECTIONS





POSITIONING



(example of 50% of the travel)

Disclaimer

The product information in this catalogue is for reference purposes. Please consult for the most up to date and accurate design information.

Piher Sensors & Controls S.A., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Piher"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product described herein.

Piher disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Piher's terms and conditions of sale, including but not limited to the warranty expressed therein, which apply to these products.

No licence, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Piher.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Piher products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Piher for any damages arising or resulting from such use or sale. Please contact authorised Piher personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Information contained in and/or attached to this catalogue may be subject to export control regulations of the European Community, USA, or other countries. Each recipient of this document is responsible to ensure that usage and/or transfer of any information contained in this document complies with all relevant export control regulations. If you are in any doubt about the export control restrictions that apply to this information, please contact the sender immediately. For any Piher International Corp. Exports, Note: All products / technologies are EAR99 Classified commodities. Exports from the United States are in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Piher:

<u>N6-L50T0C-103</u> <u>N6L30T1N-102</u> <u>N6L30T1N-503</u> <u>N6-S25T0C-104</u> <u>N6-S25T0C-105</u> <u>N6-S25T0C-102</u> <u>N6-L50T0C-102</u> <u>N6-L50T0C-103</u> <u>N6-S25T0C-103</u> <u>N6-S25T0C-103</u>