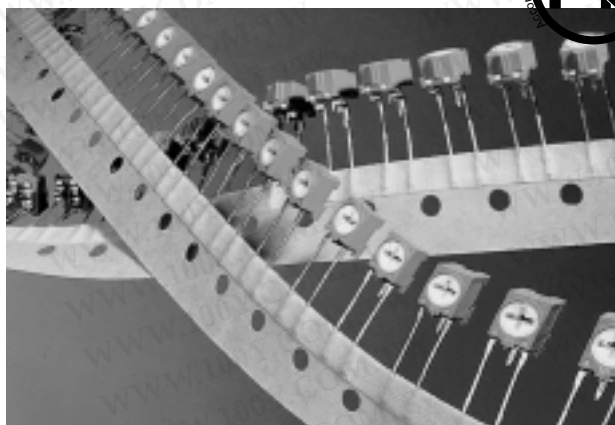




FEATURES

- Carbon resistive element
- Polyester 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
 - Lay down

MECHANICAL SPECIFICATIONS

- Mechanical rotation angle: $280^\circ \pm 10^\circ$
- Electrical rotation angle: $245^\circ \pm 25^\circ$
- Torque: 0.2 to 3 Ncm. (0.28 to 4.2 in-oz)
- Stop torque: > 7.5 Ncm. (10.5 in-oz)

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ELECTRICAL SPECIFICATIONS

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

* Others upon request

** Up to 85°C depending on application

HOW TO ORDER

Series	Mounting method	Terminal style	Packaging	Crimping	Value
N 6	L	3 0	T 1	N	1 0 2
	S = Stand up L = Lay down	25 = 2.5 mm. 30 = 3.0 mm. 50 = 5.0 mm. (See note 1)	T0 = Bulk T1 = Reel A = 20 T2 = Reel A = 21.5 T3 = Ammopack. A = 20 T4 = Ammopack. A = 21.5 T5 = Magazine T6 = Magazine Sealed for vacuum pickup T7 = Embossed Tape (See note 2)	S = SMD N = Not crimped C = Crimped (See note 3)	101 = 100Ω 105 = $1M\Omega$ (See note 4)

NOTES:

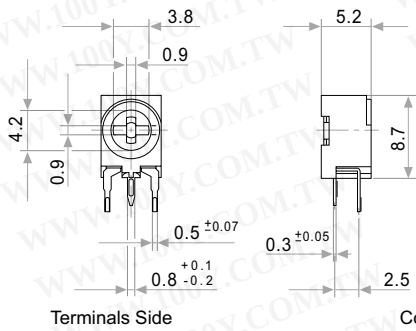
- (1) - Type "N-6 S" is only available with terminal style "25".
 - Terminal style "50" is only available with bulk packing "T0", "T1", "T3", "T5", "T6", "T7"
- (2) - Delivery for "T2" and "T4" only available in: N-6 S 25 and N-6 L 30
 - "T5", "T6" and "T7" only available in SMD.
 - "T7" Embossed Tape 750 Units per Reel. Diameter: 330 mm, aprox. thickness: 30 mm.
- (3) - Crimped terminals are only available in bulk packing "T0".
 - Type "S" is only available in N-6 L 50 T0, N-6 L 50 T5, N-6 L 50 T6, N-6 L 50 T7
- (4) Value: Example: Code: 10 2 = 1 K
 → Number of zeros
 → First two digits of the value.

NOTE: The information contained here should be used for reference purposes only.

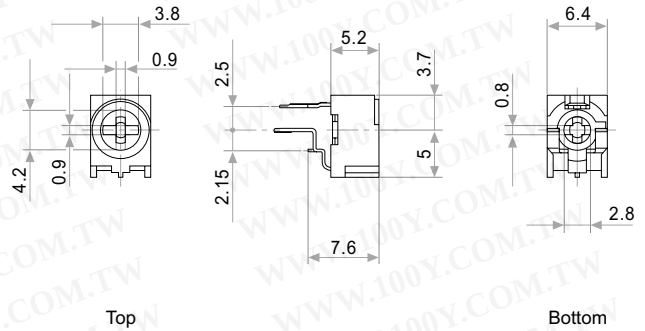
This project has been financially supported by the Spanish Technological Development Institute (CDTI).

MOUNTING METHOD

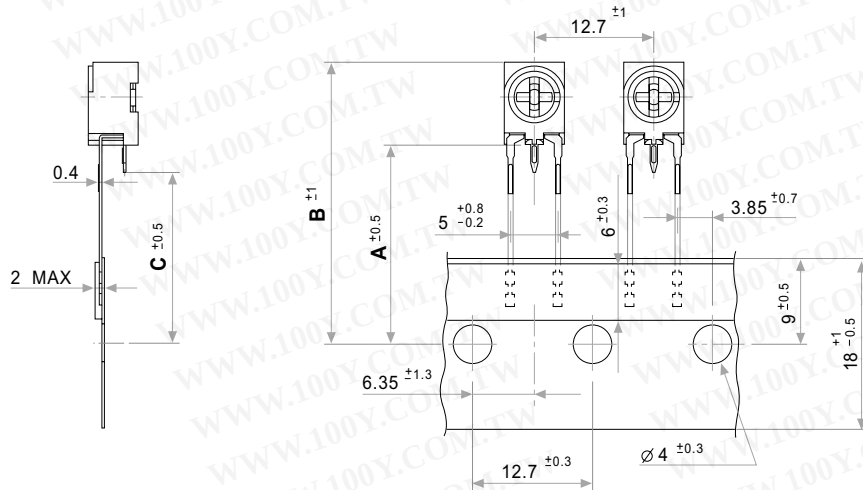
Type S



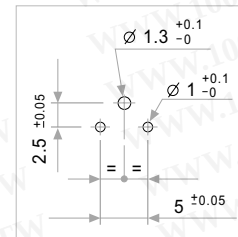
Type L



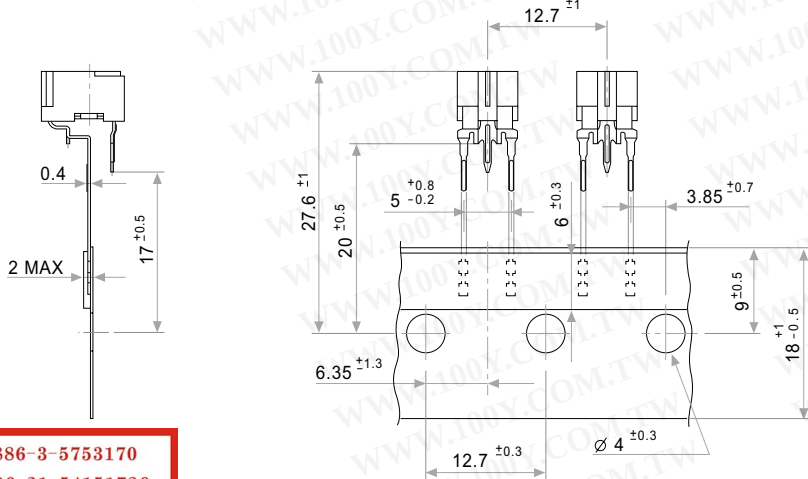
TAPE



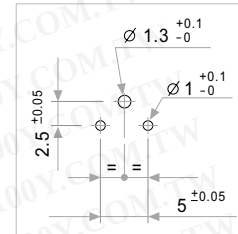
PCB Hole Layout



MODEL	A	B	C
N-6 S 25 T1 / T3	20	28.7	17
N-6 S 25 T2 / T4	21.5	30.2	18.5

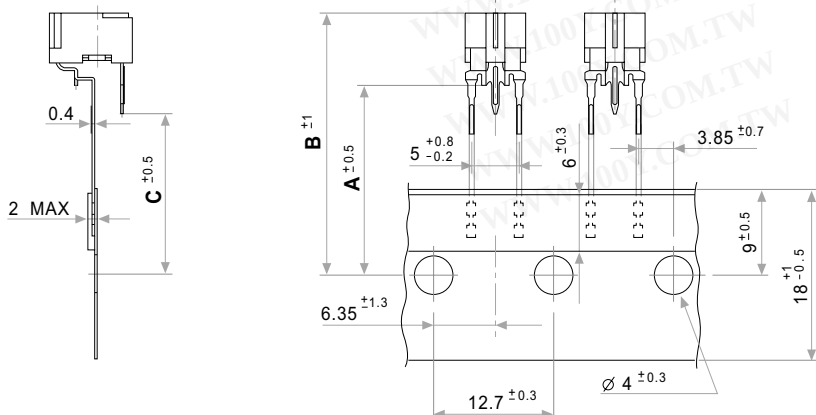


PCB Hole Layout

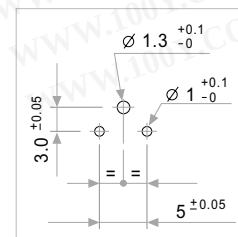


N-6 L 25 T1 / T3

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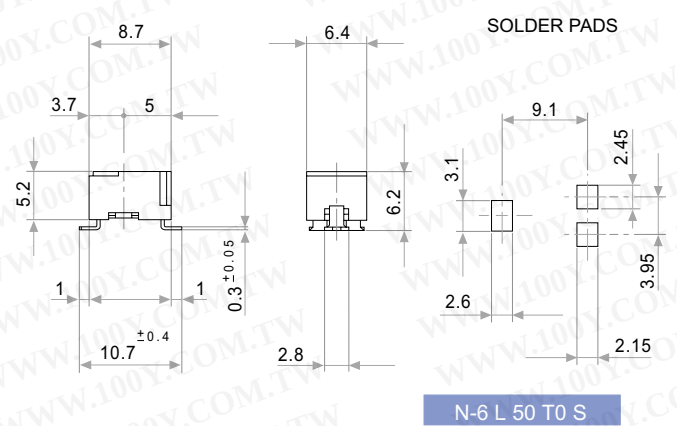
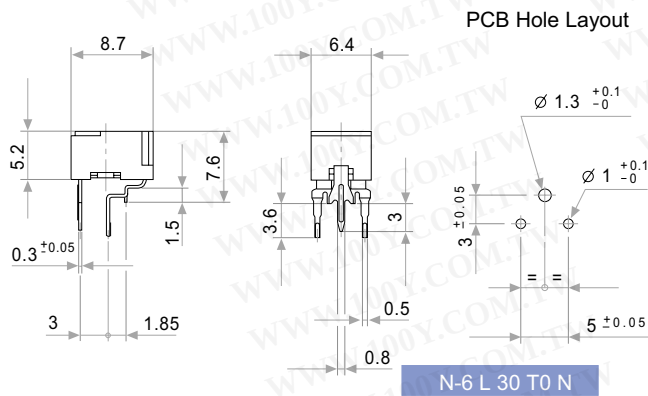
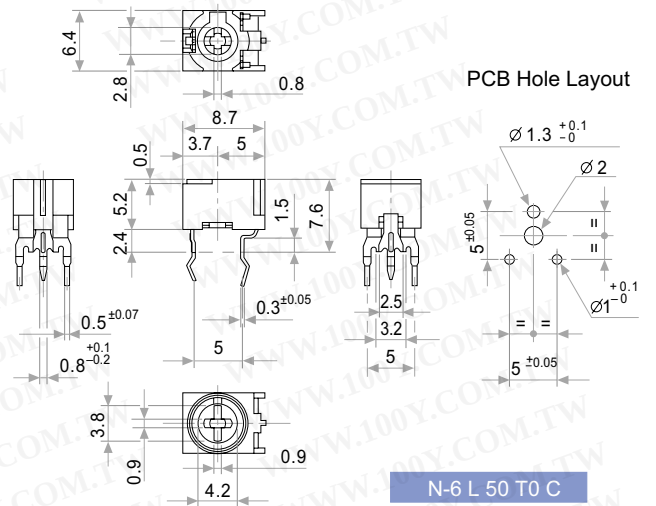
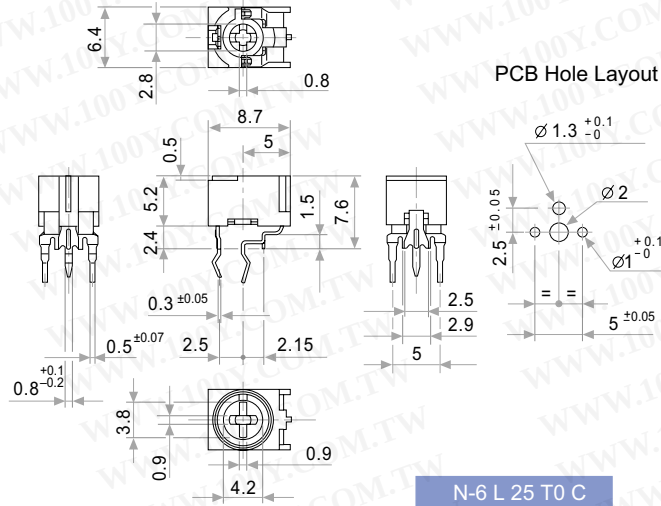


PCB Hole Layout

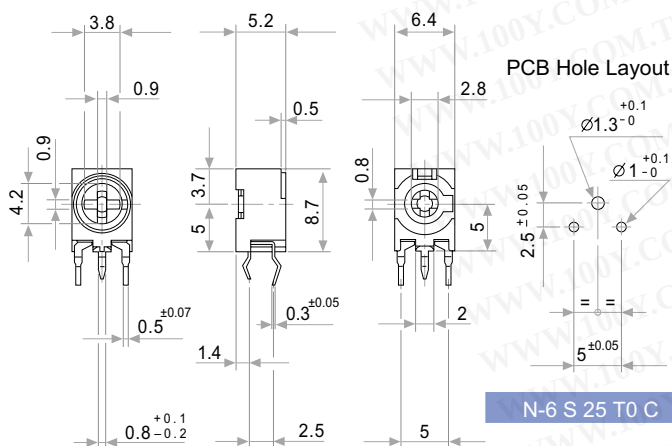


MODEL	A	B	C
N-6 L 30 T1 / T3	20	27.6	17
N-6 L 30 T2 / T4	21.5	29.1	18.5

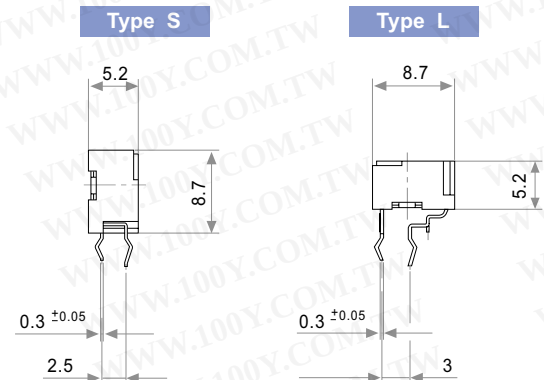
BULK TYPE L



BULK TYPE S



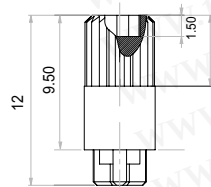
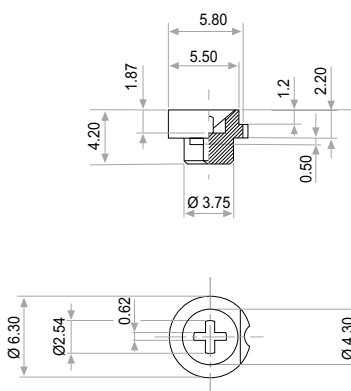
CRIMPING DETAIL "C"



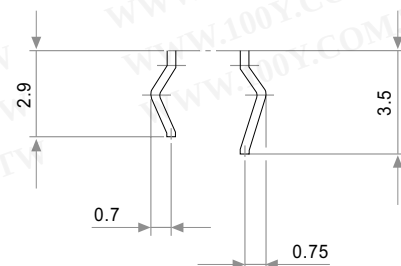
KNOB Ref.: 5680

Please order both Knob and Shaft separately

SHAFT Ref.: 6133

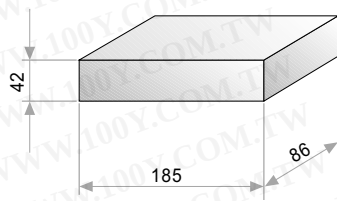


CRIMPING DETAIL



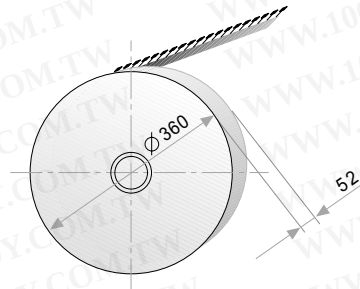
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PACKAGING



T0 BULK

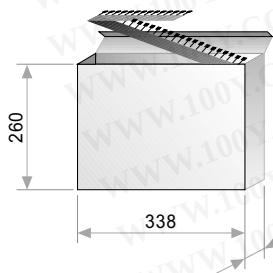
500 Units per box.



T1 / T2 TAPE ON REEL

Units per Reel according to type:

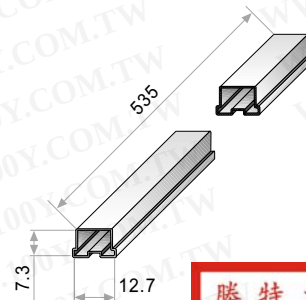
S: 1.000
L: 750



T3 / T4 AMMOPACK

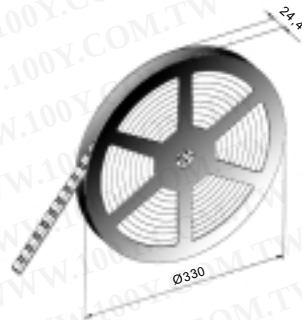
Units per Box according to type.

S: 1.000
L: 750



T5 / T6 MAGAZINE

Units per magazine: 80



T7 EMBOSSED TAPE

Units per reel: 750

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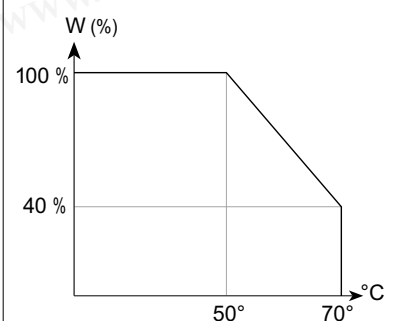
AVAILABLE COMBINATIONS	TAPE				MAGAZINE		EMB.	BULK	
	T1	T2	T3	T4	T5	T6	T7	SMD	CRIMP
N-6 S 25	●	●	●	●					●
N-6 L 25	●		●						●
N-6 L 30	●	●	●	●					●
N-6 L 50	●		●		●	●	●	●	●

TESTS

TYPICAL VARIATIONS

POWER RATING CURVE

ELECTRICAL LIFE	1.000 h. @ 50°C: 0.1 W	±10 %
MECHANICAL LIFE (CYCLES)	100 @ 10 CPM ...15 CPM	±3 % (Rn < 1 M Ω)
TEMPERATURE COEFFICIENT	-25°C; +70°C	±300 ppm (1K ≤ Rn ≤ 100K)
THERMAL CYCLING	16 h. @ 85°C; 2h. @ -25°C	±5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz. ... 55 Hz.	±2 %



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