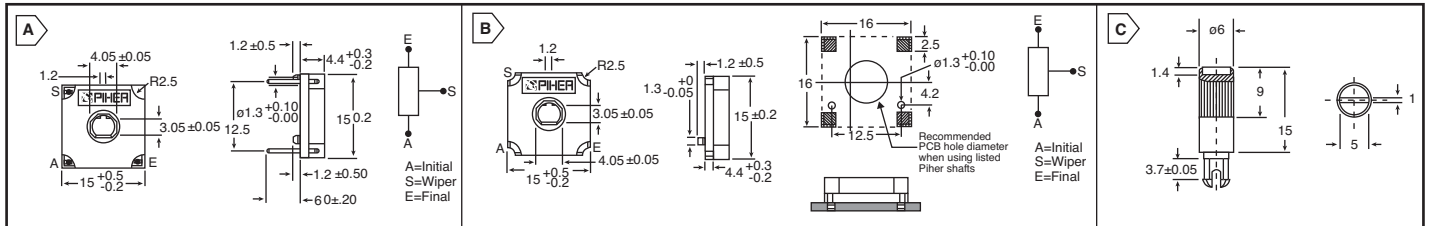


## 15MM CARBON POSITION SENSORS

Here is Piher's "revolutionary" answer to the majority of Multi-Purpose Control and Rotary Sensor design problems which were un-resolvable until now. The N15 series offers you full endless rotation,  $340^\circ \pm 10^\circ$  wide electrical angle, SMD or through-hole mount, extended working temperature range of  $-40^\circ\text{C}$  to  $+120^\circ\text{C}$  plus a whole series of customization possibilities making it the most flexible product on the market. The N15 is ideal for Appliance and Automotive Control and Sensor applications.



DIMENSIONS: mm

### Specifications:

- Resistance Values: 5K, 10K, 100K
- Tolerance:  $\pm 30\%$
- Nominal Power: 0.15W @  $50^\circ\text{C}$
- Linearity (absolute):  $\pm 3\%$
- Taper: Linear
- Mechanical Life: 100,000 cycles
- Temperature Range:  $-40^\circ\text{C}$  to  $+120^\circ\text{C}$
- Mechanical Angle:  $360^\circ$
- Electrical Angle:  $340^\circ \pm 10^\circ$
- Rotational Torque:  $\leq 20$  mN.m
- Max. Voltage: 250 VDC

### Features:

- Conceived and designed to be customized
- SMD or Through-hole Mount
- Endless Rotation ( $360^\circ$ )
- Low Profile (4.4mm)
- Embossed tape or Bulk Packaging
- Reflow Soldering Capability
- Shaft insertable from both sides
- Polarized "T" rotor (European Home Appliance Standard)

MOUSER STOCK NO.	Piher Part No.	Fig.	Price Each					
			1	25	50	100	250	
<b>Through Hole</b>								
531-N15TV-5K	NT15TV-502A3030	A	3.85	3.58	3.18	2.92	Call for Quote	
531-N15TV-10K	NT15TV-103A3030	A	3.85	3.58	3.18	2.92		
531-N15TV-100K	NT15TV-104A3030	A	3.85	3.58	3.18	2.92		
<b>Surface Mount</b>								
531-N15TS-5K	NT15TS-502A3030	B	2.94	2.74	2.44	2.23	Call for Quote	
531-N15TS-10K	NT15TS-103A3030	B	2.94	2.74	2.44	2.23		
531-N15TS-100K	NT15TS-104A3030	B	2.94	2.74	2.44	2.23		
<b>Shaft</b>								
531-5219CR	5219CR	C	.38	.34	.30	.28	Call	