

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





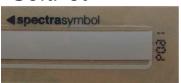




ThinPot



SoftPot



THINPOT



Features

- Linear Position Sensor
- Half the width of the SoftPot
- IP64 Dust Proof, Splash Proof
- Polyester Substrate
- 3M Pressure Sensitive Adhesive (PSA)
- Upon Request
 - Male or Female Nicomatic or Berg Connectors
 - Wiper of 0.7-2.2 Newton Force to Actuate Part

Mechanical Specifications

- -Life Cycle: >1 million -Height: ≤0.51mm (0.020")
- -Actuation Force (with a 6mm wide active cavity):

-40°C 0.9 to 2.2 N

-25°C 0.9 to 2.2 N

+23°C 0.7 to 1.8 N

+50°C 0.7 to 1.8 N

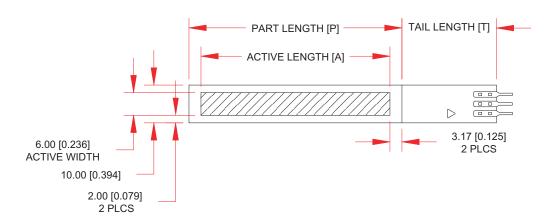
Environmental Specifications

- -Operating Temperature: -40°C to +50°C
- -Humidity: No affect @ 95% RH, 4hrs 50°C
- -IP Rating of Active Area: IP64

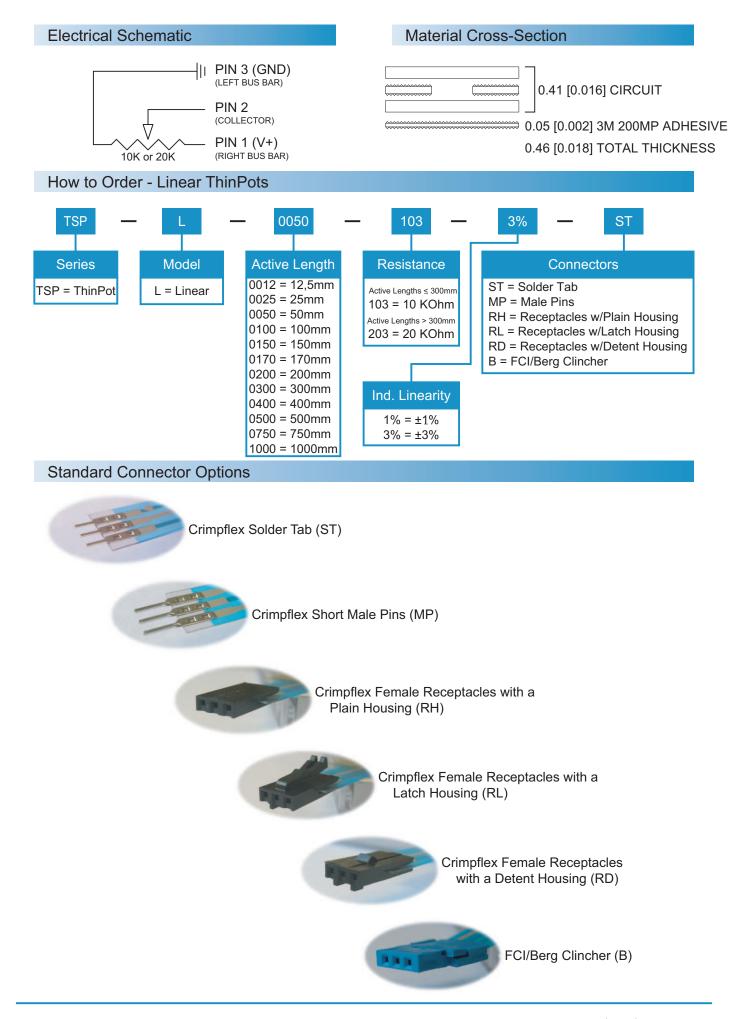
Electrical Specifications

- -Resistance Standard: 10k Ohms (lengths >300mm = 20k Ohms)
- -Resistance Custom: 1k to 100k Ohms
- -Resistance Tolerance: ±20%
- -Effective Electrical Travel: 8 to 2000mm
- -Linearity (Independent): Linear ±1% or ±3% Rotary ±3% or ±5%
- -Repeatability: No hysteresis, but with any wiper looseness some hysteresis will occur
- -Power Rating (depending on size, varies with length and temperature): 1 Watt max. @ 25°C, ≤0.5 Watt recommended
- -Resolution: Analog output theoretically infinite; affected by variation of contact wiper surface area.
- -Dielectric Value: No affect @ 500VAC for 1 minute

Dimensional Diagram - Stock Linear ThinPot



Α	12.50mm	25.00mm	50.00mm	100.00mm	150.00mm	170.00mm	200.00mm	300.00mm	400.00mm	500.00mm	750.00mm	1000.00mm
	0.492"	0.984"	1.969"	3.937"	5.906"	6.693"	7.874"	11.811"	15.748"	19.685"	29.528"	39.370"
Р	18.85mm	31.35mm	56.35mm	106.35mm	156.35mm	176.35mm	206.35mm	306.35mm	406.35mm	506.35mm	756.35mm	1006.35mm
	0.742"	1.234"	2.219"	4.187"	6.156"	6.943"	8.124"	12.061"	15.998"	19.935"	29.778"	39.620"
Т	12.70mm 0.500"		25.00mm 0.984"									



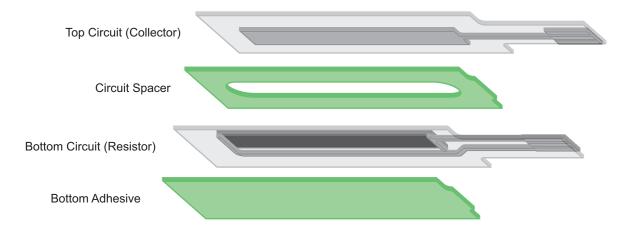
Customization

Customize the size, shape, and even the number of tracks. Such custom requests, for example, can be: multiple ganged sensors (up to 40 tracks); serpentine active area track; custom lengths 10mm-2000mm; custom rotary diameters, etc. Feel free to contact Spectra Symbol with your custom request at sales@spectrasymbol.com or (888)795-2283.

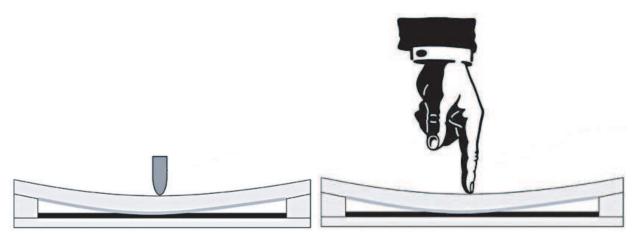
How It Works

In simple terms, the ThinPot membrane potentiometer is a resistive element, which comprises a conductive resistor, a sealed encasement and a simple wiper assembly. A membrane potentiometer can also function as a voltage divider.

The ThinPot is a three-wire system with two resistive output channels and an electrical collector channel.



By pressing a wiper down onto the top circuit the SoftPot produces the desired electrical output. The "wiper" is a non-conductive mechanism that depresses the top circuit actuating the potentiometer from the outside of the element. The top and bottom circuits are separated by 0.15mm (0.006") of spacer adhesive build-up and contact between the circuit occurs by pressure (usually 0.7-1.8 Newtons) from the wiper on the top circuit, pushing down until the top circuit connects with the bottom circuit to create a potentiometric output.



The construction of the wiper design can adapt to any application because most materials can serve as the wiper: plastics, metals, sliders, rollers, wheels, etc. Also, the ThinPot can also be manually (hand) actuated.

