

POTENTIOMETER ELEMENT FOR LINEAR POSITION SENSING



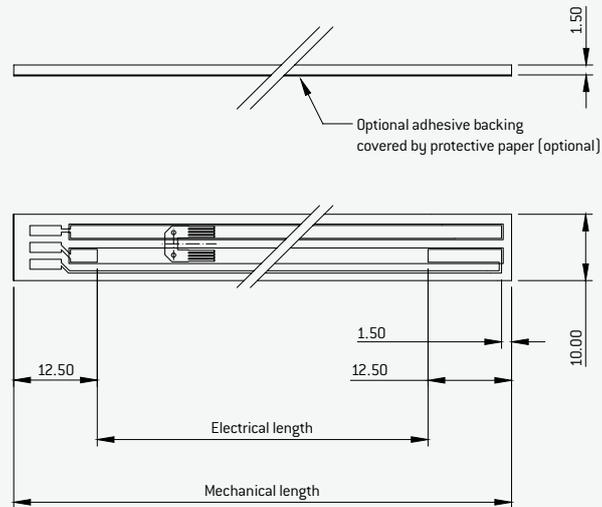
Our Metallux potentiometer elements are ideal for position sensing. We custom manufacture these elements according to the customer's specific requirements. They are also easy to integrate into existing installation spaces and feature an extremely long lifetime. Linearisation with accuracy of up to $\pm 0.25\%$ is possible.

FEATURES

- Customised designs
- Different substrate materials available

APPLICATIONS

- Rotary position sensing
- Automotive
- Industrial applications
- Aerospace



ELECTRICAL SPECIFICATIONS

Resistance range (Rn)	5 k Ω * / 10 k Ω *
Resistance tolerance	$\pm 20\%$
Electrical positioning range	20 – 500 mm
Independent linearity	$\pm 2\%$ untrimmed $\pm 0.25\%$ trimmed (Option)
Resolution	Analogue, almost infinite
Maximum wiper current	5 mA in case of malfunction
Typical supply voltage	3 – 30 VDC
Wiper load	> 100 x Rn

MECHANICAL SPECIFICATIONS

Lifetime	Up to 50 million cycles
Wiper	Metallux PC Board system with bimetal wiper

AMBIENT CONDITIONS

FR4, polymer, ceramic	-40° C – +125° C on FR4-carrier
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MATERIAL

Substrates	FR4, FR5, Polymer, Ceramic, Polyimid
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Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. * Others on request.

SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection
E040200100	Potentiometer element, linear	10 k Ω	100 mm	Solder pads
H903560002	Slider 2			