

# POTENTIOMETER ELEMENT FOR LINEAR POSITION SENSING



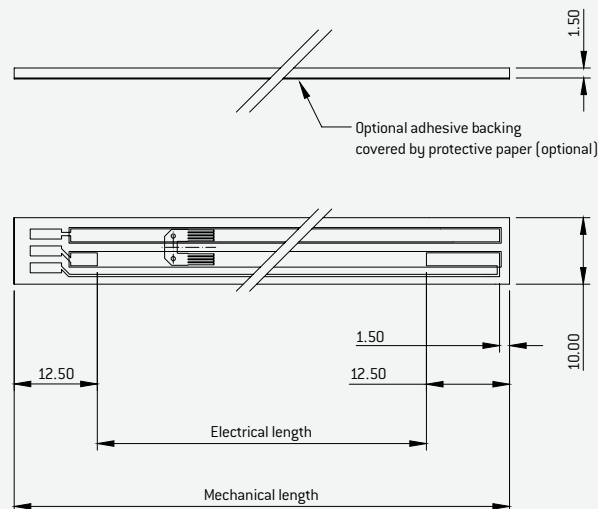
Our Metallux potentiometer elements are ideal for position sensing. We custom manufacture these elements according to the customer's specific requirements. They are also easy to integrate into existing installation spaces and feature an extremely long lifetime. Linearisation with accuracy of up to  $\pm 0,25\%$  is possible.

## FEATURES

- Customised designs
- Different substrate materials available

## APPLICATIONS

- Rotary position sensing
- Automotive
- Industrial applications
- Aerospace



## ELECTRICAL SPECIFICATIONS

<b>Resistance range (Rn)</b>	5 k $\Omega$ *
<b>Resistance tolerance</b>	$\pm 20\%$
<b>Electrical positioning range</b>	20 – 500 mm
<b>Independent linearity</b>	$\pm 2\%$ untrimmed $\pm 0,25\%$ trimmed (Option)
<b>Resolution</b>	Analogue, almost infinite
<b>Maximum wiper current</b>	5 mA in case of malfunction
<b>Typical supply voltage</b>	3 – 30 VDC
<b>Wiper load</b>	> 100 x Rn

## MECHANICAL SPECIFICATIONS

<b>Lifetime</b>	up to 50 million cycles
<b>Wiper</b>	Metallux PC Board system with bimetal wiper

## AMBIENT CONDITIONS

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

<b>Substrates</b>	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.

## CUSTOMIZED ORDER