Series KIT LMF

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Vishay Sfernice

Conductive Plastic Motion Transducer Elements (KIT), up to 1000 mm



The LMF is a reduced bulk, precision motion transducer, designed for easy integration into equipment.

QUICK REFERENCE DATA			
Sensor type	LINEAR, conductive plastic		
Output type	Solder pads		
Market appliance	Industrial		
Dimensions	L x 15 mm x 1.6 mm (with L = TET + 18 mm)		

FEATURES

- Measurement range 25 mm to 1000 mm
- High accuracy ± 1 % down to ± 0.025 %
- · Good repeatability
- · Simple and flexible mounting
- · Essentially infinite resolution Made in two separate parts: - the sensing element
- the wiper
- Special designs available on request
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS					
Theoretical electrical angle (TEA = E)	From 25 mm to 1000 mm in increments of 25 mm				
Independent linearity (over TET)	$\leq \pm 1$ %; $\leq \pm 0.1$ %				
On request	$\leq \pm \ 0.05 \ \%$ for $E \geq 100 \ mm$	$\leq \pm$ 0.025 % for E \geq 200 mm			
Actual electrical travel (AET)	AET = TET + 2 mm				
Ohmic value	From 400 Ω/cm to 2 kΩ/cm				
Resistance tolerance at 20 °C	± 20 %				
Repeatability	≤ 0.01 %				
Maximum power rating	0.05 W/cm at 40 °C	0 W at 85 °C			
Wiper current	Recommended: a few µA - 1 mA max. (continuous)				
Load resistance	Minimum 10 ³ x R _T				
Insulation resistance	\geq 1000 MΩ, 500 V_{DC}				
Dielectric strength	≥ 750 V _{RMS} , 50 Hz				

MECHANICAL SPECIFICATIONS				
Support of element	Fiberglass epoxy			
On request	Plastic moulding			
Wiper (non insulated)	Precious metal multifinger			
On request	Insulated			
Terminals	Soldering pads			
On request	By wires			
Fixing	Glued: Double face Isotac			
On request	Screwed: Holes in the support			

PERFORMANCE				
Operating life	25 million cycles typical/1 Hz/T° = 20 °C \pm 5 °C/80 % TET			
Temperature range	-55 °C to +125 °C			

Note

Nothing stated herein shall be construed as a guarantee of quality or durability

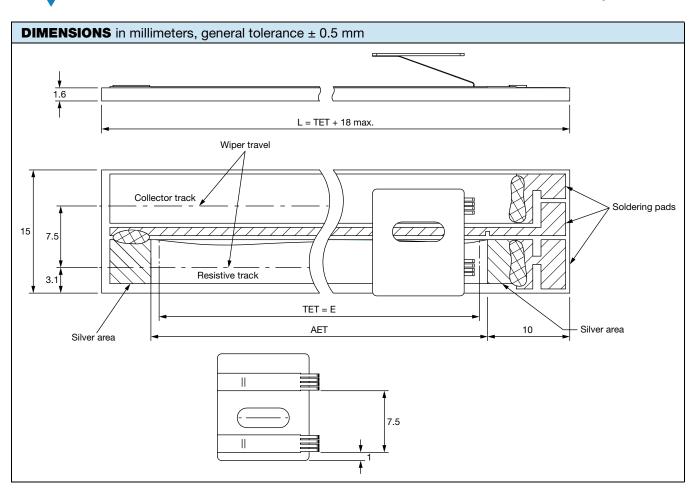
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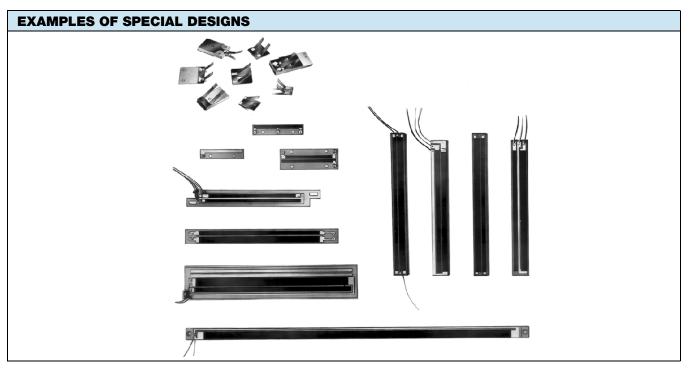




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ORDER	ORDERING INFORMATION/DESCRIPTION						
КІТ	LM	F	3	D	103	w	е.
SERIES	MODEL	CONDUCTOR	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		F: plastic S: serigraphy	Times 25 mm	A: ± 1 % D: ± 0.1 % E: ± 0.05 % F: ± 0.025 %	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number	

SAP PART NUMBERING GUIDELINES						
LMF	3	D	103	W		
MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES		



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