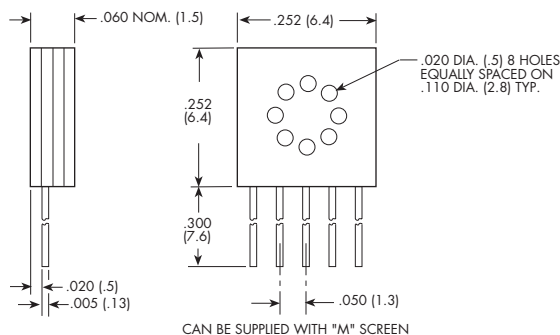
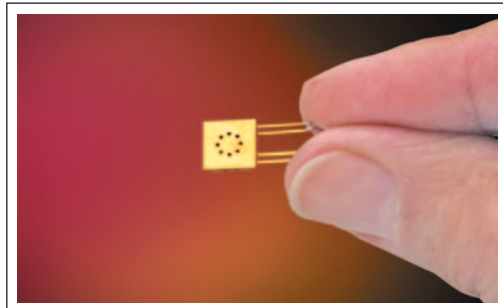




HIGH TEMPERATURE THIN LINE IS® PRESSURE TRANSDUCER LE-30-125 SERIES

- High Natural Frequency
- Silicon on Silicon Integrated Sensor **VIS®**
- Excellent Stability
- Ideal For Flight Test & Wind Tunnel Applications
- High Temperature Capabilities -65°F To +450°F

The LE Series demonstrates Kulite's ability to provide pressure transducers suited for adaptation into custom packages. These devices can be integrated into various test articles such as fan blades, engine nozzles of various types, etc. The features of these transducers include small foot print, high natural frequency, extreme resistance to vibration and shock, and wide temperature range.



WIRING	
COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	- OUTPUT

CONSULT FACTORY FOR SPECS. ON SEALED GAGE

INPUT Pressure Range	0.7 10	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential				Absolute, Sealed Gage	
Over Pressure	2 Times Rated Pressure With No Change In Calibration					
Burst Pressure	3 Times Rated Pressure					
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases					
Rated Electrical Excitation	10 VDC/AC					
Maximum Electrical Excitation	15 VDC/AC					
Input Impedance	1000 Ohms (Min.)					
OUTPUT Output Impedance	1000 Ohms (Nom.)					
Full Scale Output (FSO)	100 mV (Nom.)					
Residual Unbalance	± 5 mV (Typ.)					
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)					
Resolution	Infinitesimal					
Natural Frequency (KHz) (Typ.)	175	240	300	380	550	700
Acceleration Sensitivity % FS/g Perpendicular Transverse	1.0x10 ⁻³ 1.4x10 ⁻⁴	5.0x10 ⁻⁴ 6.0x10 ⁻⁵	3.0x10 ⁻⁴ 4.0x10 ⁻⁵	1.5x10 ⁻⁴ 2.0x10 ⁻⁵	1.0x10 ⁻⁴ 9.0x10 ⁻⁶	6.0x10 ⁻⁵ 6.0x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC					
ENVIRONMENTAL Operating Temperature Range	-65°F to +450°F (-55°C to +235°C)					
Compensated Temperature Range	+80°F to +450°F (+25°C to +235°C)					
Thermal Zero Shift	± 1% FS/100°F (Typ.)					
Thermal Sensitivity Shift	± 1% /100°F (Typ.)					
Steady Acceleration	30,000g. (Max.)					
Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)					
PHYSICAL Electrical Connection	4 Conductor 36 AWG Leads 36" Long					
Weight	.2 Gram (Nom.) Excluding Module and Leads					
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon					

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (C)

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