



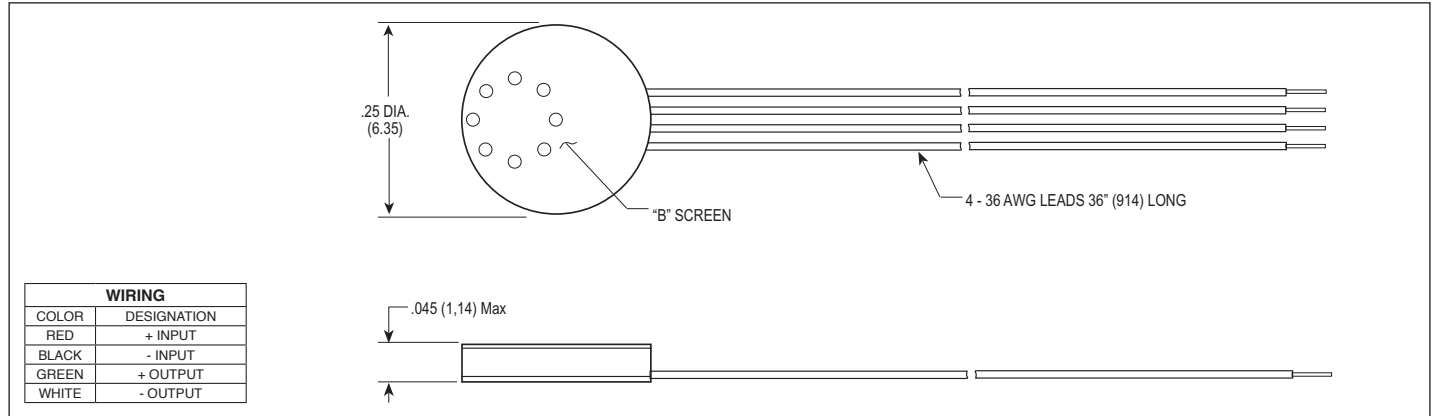
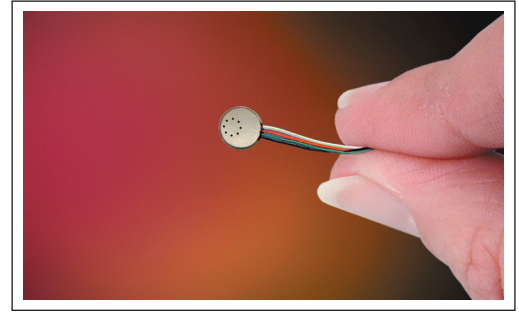
HIGH TEMPERATURE THIN LINE PRESSURE TRANSDUCER

LE-250A SERIES

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

The LE-250A Series features 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.

Kulite recommends the [KSC Series](#) of signal conditioners to maximize the measurement capability of the LE-250A transducer.



INPUT	Pressure Range	0.7 10	0.7 10	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
	Operational Mode	Absolute			Absolute, Sealed Gage			
	Over Pressure	2 Times Rated Pressure						
	Burst Pressure	3 Times Rated Pressure						
	Pressure Media	All Non-Conductive, Non-Corrosive Liquids or Gases						
	Rated Electrical Excitation	10 VDC						
	Maximum Electrical Excitation	12 VDC						
	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 of Sensor Without Screen (KHz) (Typ.)	175	200	240	300	380	550	700
	Acceleration Sensitivity % FS/g Perpendicular	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵
	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	± 3% FS/100°F (Typ.) (± 4% FS/100°F (Max.))	± 2% FS/100°F (Typ.) (± 3% FS/100°F (Max.))		± 1% FS/100°F (Typ.) (± 2% FS/100°F (Max.))			
	Thermal Sensitivity Shift	± 3% /100°F (Typ.) (± 4% /100°F (Max.))	± 2% /100°F (Typ.) (± 3% /100°F (Max.))		± 1% /100°F (Typ.) (± 2% /100°F (Max.))			
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz						
	Mechanical Shock	20g Half Sine Wave 11 msec. Duration						
PHYSICAL	Electrical Connection	4 - 36 AWG Leads 36" (914) Long						
	Weight	.2 Gram (Nom.) Excluding 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. All dimensions nominal. Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2025 Kulite Semiconductor Products, Inc. All Rights Reserved. Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.