

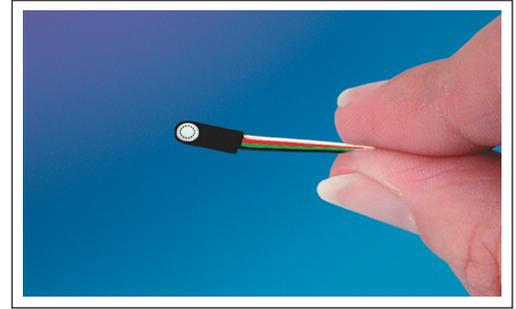


THIN LINE PRESSURE TRANSDUCER

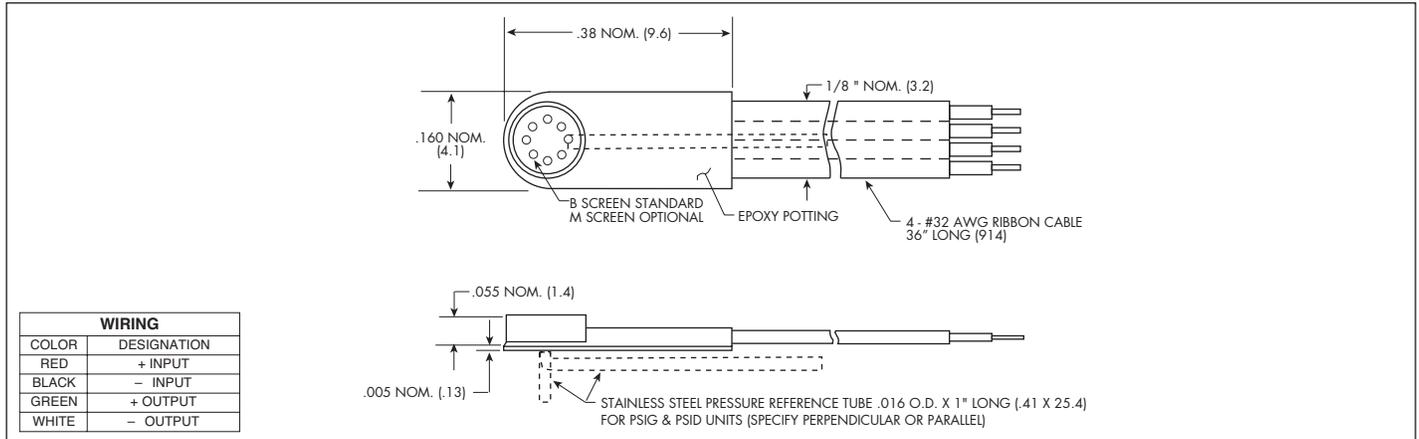
LQ-080 SERIES LQ-125 SERIES

- High Natural Frequency
- Excellent Stability
- Ideal For Flight Test & Wind Tunnel Applications
- Silicon on Silicon Integrated Sensor **VIS®**

The LQ 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.



Kulite recommends the **KSC Series** of signal conditioners to maximize the measurement capability of the LQ-080 and LQ-125 transducers.



	.35 5	0.7 10	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
INPUT	Pressure Range		Absolute, Gage, Differential		Absolute, Gage, Sealed Gage, Differential		Absolute, Sealed Gage
	Operational Mode		2 Times Rated Pressure		3 Times Rated Pressure		All Nonconductive, Noncorrosive Liquids or Gases
	Over Pressure		10 VDC		12 VDC		1000 Ohms (Min.)
	Burst Pressure		1000 Ohms (Nom.)		100 mV (Nom.)		± 5 mV (Typ.)
	Pressure Media		± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)		Infinitesimal		150 175 240 300 380 550 700
	Rated Electrical Excitation		1.5x10 ⁻³ 1.0x10 ⁻³ 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵		100 Megohm Min. @ 50 VDC		
	Maximum Electrical Excitation		-65°F to +250°F (-55°C to +120°C)		+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request		
	Input Impedance		± 1% FS/100°F (Typ.)		± 1% /100°F (Typ.)		
OUTPUT	Output Impedance		10-2,000 Hz Sine, 100g. (Max.)		20g half Sine Wave 11 msec. Duration		
	Full Scale Output (FSO)		4 Conductor 32 AWG Ribbon Cable 36" Long		.2 Grams (Nom.) Excluding Cable		
	Residual Unbalance		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon				
	Combined Non-Linearity, Hysteresis and Repeatability						
	Resolution						
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)						
	Acceleration Sensitivity % FS/g Perpendicular						
	Insulation Resistance						
ENVIRONMENTAL	Operating Temperature Range						
	Compensated Temperature Range						
	Thermal Zero Shift						
	Thermal Sensitivity Shift						
	Linear Vibration						
	Mechanical Shock						
PHYSICAL	Electrical Connection						
	Weight						
	Pressure Sensing Principle						

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (H) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 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.