

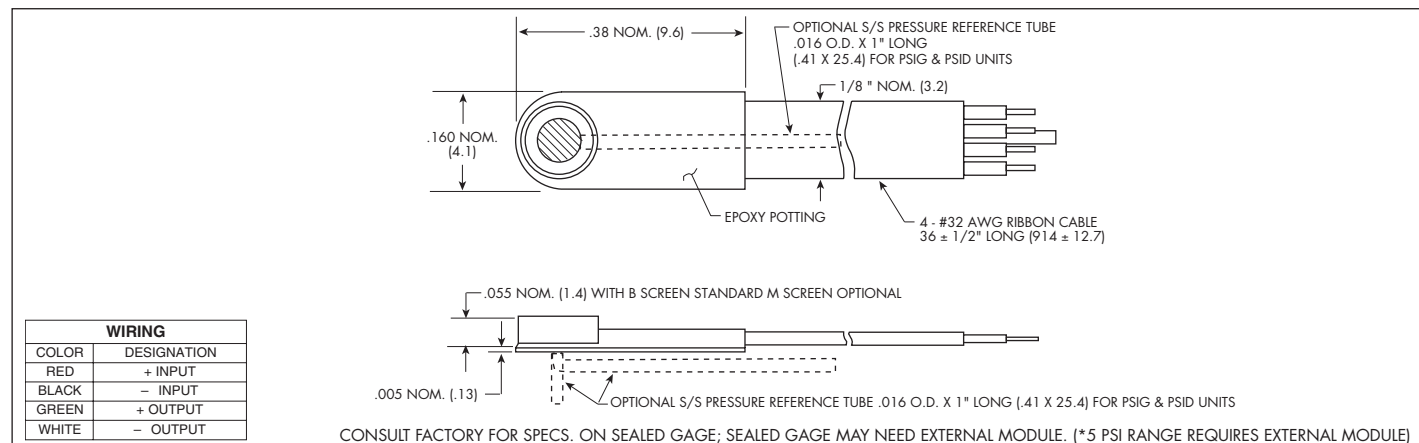
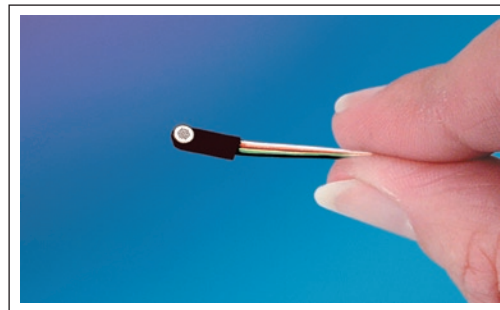


THIN LINE IS® PRESSURE TRANSDUCER

LQ-080 SERIES LQ-125 SERIES

- High Natural Frequency
- Excellent Stability
- Flight Qualified

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.



INPUT	.35 *5	0.7 10	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
Pressure Range	Absolute, Gage, Sealed Gage, Differential						Absolute, Sealed Gage
Operational Mode	2 Times Rated Pressure With No Change in Calibration						
Over Pressure	3 Times Rated Pressure						
Burst Pressure	All Nonconductive, Noncorrosive Liquids or Gases						
Pressure Media	10 VDC/AC						
Rated Electrical Excitation	15 VDC/AC						
Maximum Electrical Excitation	1000 Ohms (Min.)						
Input Impedance	1000 Ohms (Nom.)						
OUTPUT	100 mV (Nom.)						
Output Impedance	± 5 mV (Typ.)						
Full Scale Output (FSO)	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)						
Residual Unbalance	Infinitesimal						
Combined Non-Linearity, Hysteresis and Repeatability	150	175	240	300	380	550	700
Resolution	1.5x10 ⁻³ 2.2x10 ⁻⁴	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
Natural Frequency (KHz) (Typ.)	100 Megohm Min. @ 50 VDC						
Acceleration Sensitivity % FS/g Perpendicular Transverse	-65°F to +250°F (-55°C to +120°C)						
Insulation Resistance	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request						
ENVIRONMENTAL	± 1% FS/100°F (Typ.)						
Operating Temperature Range	± 1% /100°F (Typ.)						
Compensated Temperature Range	30,000 g. (Max.)						
Thermal Zero Shift	10-2,000 Hz Sine, 100g. (Max.)						
Thermal Sensitivity Shift	4 Conductor 32 AWG Ribbon Cable 36" Long						
Steady Acceleration	.2 Grams (Nom.) Excluding Cable						
Linear Vibration	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon						
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.

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

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