



THIN LINE PRESSURE TRANSDUCER

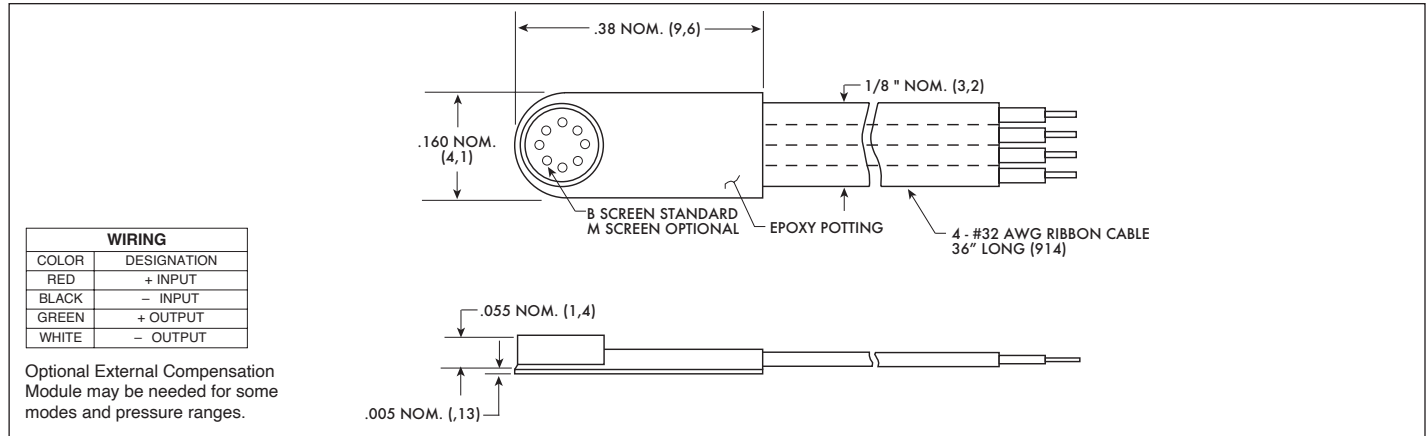
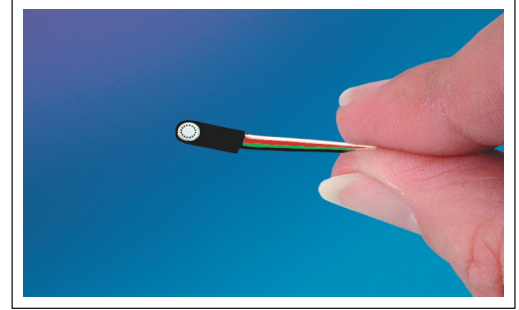
LL-080 SERIES LL-125 SERIES

- Patented Leadless Technology **VIS**®
- High Natural Frequency
- Ideal For Flight Test & Wind Tunnel Applications
- Excellent Stability

The LL Series features Kulite's Patented Leadless Technology and 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.

Part performance not guaranteed if used in water.

Kulite recommends the [KSC Series](#) of signal conditioners to maximize the measurement capability of the LL-080 and LL-125 transducers.



INPUT	Pressure Range	0.7 10	1 15	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	Most Conductive Liquids and Gases (Please Consult Factory)						
	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 +250°F (-55°C to +120°C)					
	Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request						
	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 Leads 36 AWG 36" (914) Long (36 AWG Shielded Teflon Cable Optional)						
	Weight	.2 Gram (Nom.) Excluding Module and Leads						
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology						

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (Q) 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.