

## LL-080 SERIES LL-125 SERIES

- Patented Leadless Technology VIS<sup>®</sup>
- 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.





	.160 NOM.	EEN STANDARD EEN OPTIONAL EPO	1/8 " NO	M. (3.2)	ON CABLE		
WIRING  COLOR DESIGNATION  RED + INPUT  BLACK - INPUT  GREEN + OUTPUT  WHITE - OUTPUT		TAINLESS STEEL PRESSL OR PSIG & PSID UNITS			G (.41 X 25.4)		
	0.35 0.7	1	1.7	3.5	7	17	35 BAR

INPUT	Pressure Range	0.35 5	0.7 10	1 15	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
	Operational Mode	Absolute, Gage, Differential			Absolute, Gage, Sealed Gage, Differential			Absolute, Sealed Gage	
	Over Pressure	2 Times Rated Pressure							
	Burst Pressure	3 Times Rated Pressure							
Į	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 Impedance	1000 Ohms (Nom.)							
	Full Scale Output (FSO)	100 mV (Nom.)							
	Residual Unbalance	± 5 mV (Typ.)							
þ	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)							
OUTPUT	Resolution	Infinitesimal							
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	150	175	200	240	300	380	550	700
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 <sup>-3</sup>	1.0x10 <sup>-3</sup>	6.5x10 <sup>-4</sup>	5.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	1.5x10 <sup>-4</sup>	1.0x10 <sup>-4</sup>	6.0x10 <sup>-5</sup>
	Insulation Resistance	100 Megohm Min. @ 50 VDC							
AL.	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)							
ENVIRONMENTAL	Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request							
M	Thermal Zero Shift	± 3% FS/100°F (Typ.) (± 4% FS/100°F Max.)			± 1% FS/100°F (Typ.) (± 2% FS/100°F Max.)				
ő	Thermal Sensitivity Shift	± 3% /100°F (Typ.) (± 4% /100°F Max.)			± 1% /100°F (Typ.) (± 2% /100°F Max.)				
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz							
Ē	Mechanical Shock	20g Half Sine Wave 11 msec. Duration							
Ä	Electrical Connection	4 Conductor 32 AWG Ribbon Cable 36" Long							
PHYSICAL	Weight	.2 Gram (Nom.) Excluding Module and Leads							
표	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. (N) 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.