

LL-080 SERIES LL-125 SERIES

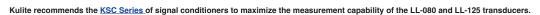
- Patented Leadless Technology VIS®
- High Natural Frequency

Pressure Sensing Principle

- · 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.





			.38 NO	M. (9.6)						
	WIRING COLOR DESIGNATION RED + INPUT BLACK - INPUT GREEN + OUTPUT WHITE - OUTPUT MRING OSS NOM. (1.4) 1/8 "NOM. (3.2) 1/8 "NOM. (3.2) 4. #32 AWG RIBBON CABLE 36" LONG (914) STAINLESS STEEL PRESSURE REFERENCE TUBE. 016 O.D. X 1" LONG (.41 X 25.4) FOR PSIG & PSID UNITS (SPECIFY PERPENDICULAR OR PARALLEL)									
E										
	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	Absol	ute, Gage, Diffe	rential	Absolute, Ga	age, Sealed Gag	e, Differential	Absolute, S	ealed Gage	
	Over Pressure	2 Times Rated Pressure								
INPUT	Burst Pressure	3 Times Rated Pressure								
Ž	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								
0	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	150	175	200	240	300	380	550	700	
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	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 N	Min. @ 50 VDC				
AL	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)								
I.	Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request								
MA	Thermal Zero Shift	± 3% FS/100°F (Typ.) (± 4% FS/100°F Max.) ± 1% FS/100°F (Typ.) (± 2% FS/100°F Max.)								
S S	Thermal Sensitivity Shift	± 3% /100°F (Typ.) (± 4% /100°F Max.) ± 1% /100°F (Typ.) (± 2% /100°F Max.)								
ENVIRONMENTA	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)								
⊞	Mechanical Shock	20g half Sine Wave 11 msec. Duration								
¥	Electrical Connection	4 Conductor 32 AWG Ribbon Cable 36" Long								
IYSICAL	Weight	.2 Gram (Nom.) Excluding Module and Leads								

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (M) 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 programs, please consult the factory.

Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology



THIN LINE PRESSURE TRANSDUCER

LL-250A SERIES

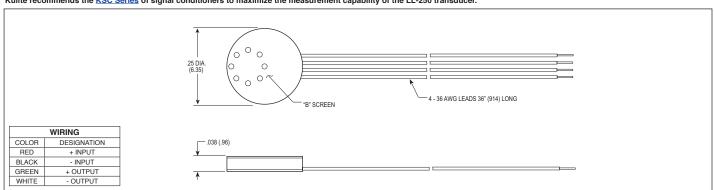
- Patented Leadless Technology VIS®
- High Natural Frequency
- Excellent Stability
- · Excellent Static & Dynamic Performance
- Ideal For Flight Test & Wind Tunnel Applications

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-250 transducer.



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	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 Absolute, Sealed Gage								
	Over Pressure	2 Times Rated Pressure								
INPUT	Burst Pressure	3 Times Rated Pressure								
볼	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.)								
5	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)								
OUTPUT	Resolution	Infinitesimal								
0	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	150	175	5	200	240	300	380	550	700
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	1.0x1	0-3	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								
با	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								
闄	Thermal Zero Shift	± 1% FS/100°F (Typ.)								
No.	Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
M	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)								
	Mechanical Shock	20g half Sine Wave 11 msec. Duration								
SAL	Electrical Connection	4 - 36 AWG Leads 36" Long								
PHYSICAL	Weight	.2 Gram (Nom.) Excluding Module and Leads								
품	Pressure Sensing Principle	Pressure Sensing Principle Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology								

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