

ULTRAMINIATURE THIN LINE PRESSURE TRANSDUCERS

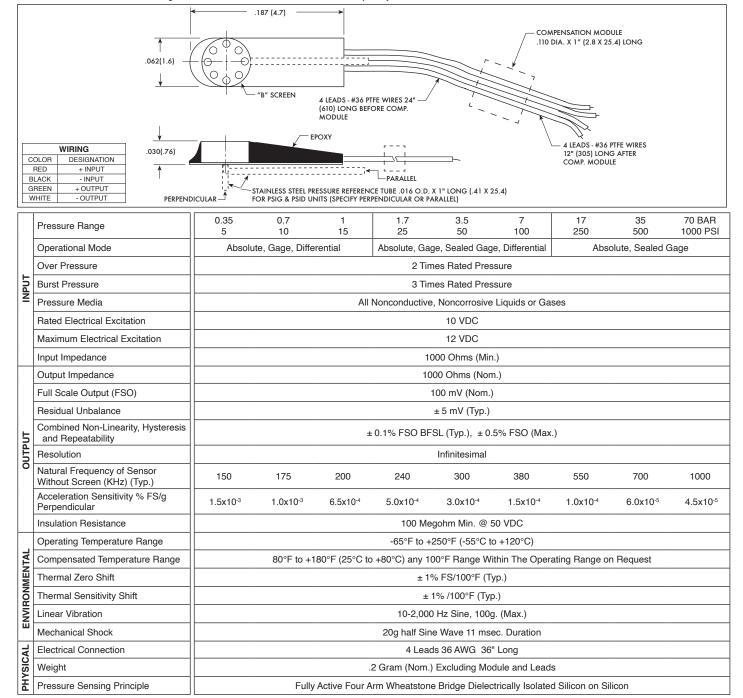
LQ-062 SERIES

- Ideal For Wind Tunnel Applications
- Excellent Static And Dynamic Performance
- High Natural Frequency
- Silicon on Silicon Integrated Sensor VIS®

The LQ-062 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-062 transducer.



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



THIN LINE PRESSURE TRANSDUCER

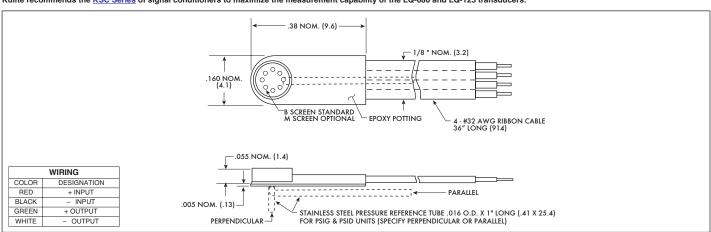
LQ-080 SERIES LQ-125 SERIES

- 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.



Ŀ	VALUE - OUTPUT	TER ENDI			(SPECIFT PERPENDICE	DEAR OR FARALLELY				
	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	Abso	lute, Gage, Diffe	erential	Absolute, Ga	ge, Sealed Gag	Absolute, Sealed Gage			
INPUT	Over Pressure	2 Times Rated Pressure								
	Burst Pressure	3 Times Rated Pressure								
ĮĒ	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases								
	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								
9	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 Min. @ 50 VDC								
	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)								
Ĭ₹	Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request								
MEN.	Thermal Zero Shift	± 3% FS/100°F (Typ.) (± 4% FS/100°F Max.) ± 1% FS/100°F (Typ.) (± 2% FS/100°F Max.)								
ENVIRONMENTAL	Thermal Sensitivity Shift		0°F (Typ.) 00°F Max.)	± 1% /100°F (Typ.) (± 2% /100°F Max.)						
E	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)								
	Mechanical Shock	20g half Sine Wave 11 msec. Duration								
PHYSICAL	Electrical Connection	4 Conductor 32 AWG Ribbon Cable 36" Long								
	Weight	.2 Grams (Nom.) Excluding Cable								
표	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								

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.

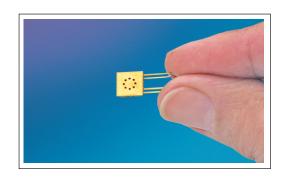


THIN LINE PRESSURE TRANSDUCER

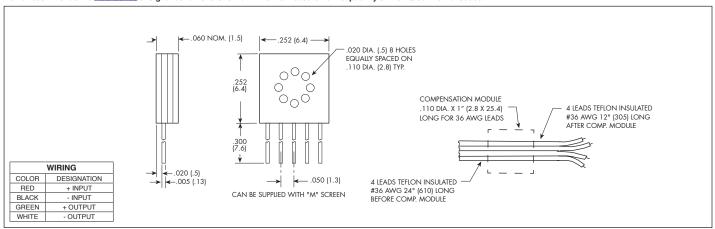
LQ-30-125 SERIES

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

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-30-125 transducer.



	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 Absolute, Sealed Gage								
INPUT	Over Pressure	2 Times Rated Pressure								
	Burst Pressure	3 Times Rated Pressure								
불	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases								
	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								
ō	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								
Ļ	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)								
Ä	Compensated Temperature Range	80°F to 180°F (25°C to 80°C) Any 100°F Range within The Operating Range on Request								
ME	Thermal Zero Shift	± 1% FS/100°F (Typ.)								
ENVIRONMENTAL	Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)								
Ē	Mechanical Shock	20g half Sine Wave 11 msec. Duration								
;AL	Electrical Connection	4 Conductor 36 AWG Leads 36" Long								
PHYSICAL	Weight	.2 Gram (Nom.) Excluding Module and Leads								
F	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								

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