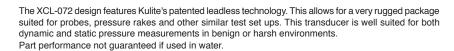


MINIATURE LEADLESS PRESSURE TRANSDUCER

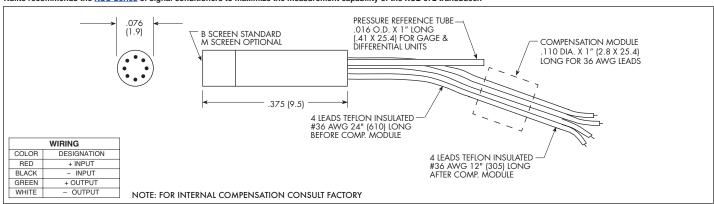
XCL-072 SERIES

- · Designed For Harsh Environments
- · Ideal For Turbine Engine Probes and Wind Tunnel Applications
- Patented Leadless Technology VIS®
- Designed For Both Static and Dynamic Response
- · Suitable For Use in Most Conductive Liquids and Gases





Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the XCL-072 transducer.



INPUT	Pressure Range	l	.0 5	1.7 25	3.5 50	7 100	14 200	21 300	35 500	70 BAR 1000 PSI	
	Operational Mode	Absolute, Gage, Differential Absolute, Gage, Sealed Gage, Absolute, Sealed Gage									
	Over Pressure	2 Times Rated Pressure to 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI (35 BAR)									
	Burst Pressure	3 Times Rated Pressure									
	Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory									
	Rated Electrical Excitation	10 VDC/AC									
	Maximum Electrical Excitation	12 VDC/AC									
	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.)	175	200	240	300	380	550	575	700	1000	
	Acceleration Sensitivity % FS/g Perpendicular	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.1x10 ⁻⁴	9.0x10 ⁻⁵	6.0x10 ⁻⁵	4.0x10 ⁻⁵	
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
	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									
ME	Thermal Zero Shift	± 1% FS/100°F (Typ.)									
NO.	Thermal Sensitivity Shift	± 1% /100°F (Typ.)									
N N	Steady Acceleration	10,000g. (Max.)									
"	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)									
ÄL	Electrical Connection	4 Leads 36 AWG 36" Long									
PHYSICAL	Weight	.2 Gram (Nom.) Excluding Module and Leads									
Pressure Sensing Principle Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Sili								con Patented	Leadless Tech	nology	

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



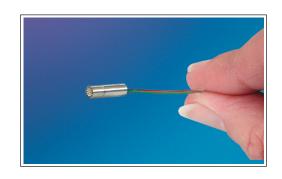
MINIATURE LEADLESS PRESSURE TRANSDUCER

XCL-100 SERIES

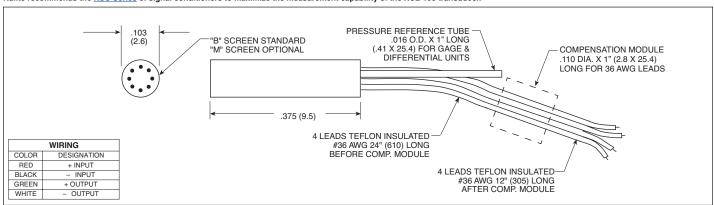
- Designed For Harsh Environments
- Ideal For Turbine Engine Probes and Wind Tunnel Applications
- Patented Leadless Technology VIS®
- Designed For Both Static and Dynamic Response
- Suitable For Use in Most Conductive Liquids and Gases

The XCL-100 Series design features Kulite's patented leadless technology. This allows for a very rugged package suited for probes, pressure rakes and other similar test set ups. This transducer is well suited for both dynamic and static pressure measurements in benign or harsh environments.

Part performance not guaranteed if used in water.



Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the XCL-100 transducer.



	Pressure Range	0.7 10	1.0 15	1.7 25	3.5 50	7 100	14 200	21 300	35 500	70 BAR 1000 PSI	
INPUT	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									
	Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory									
	Rated Electrical Excitation	10 VDC/AC									
	Maximum Electrical Excitation	12 VDC/AC									
	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.)	175	200	240	300	380	550	575	700	1000	
	Acceleration Sensitivity % FS/g Perpendicular	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.1x10 ⁻⁴	9.0x10 ⁻⁵	6.0x10 ⁻⁵	4.0x10 ⁻⁵	
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
_	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									
ME	Thermal Zero Shift	± 1% FS/100°F (Typ.)									
ő	Thermal Sensitivity Shift	± 1% /100°F (Typ.)									
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Steady Acceleration	10,000g. (Max.)									
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)									
SAL	Electrical Connection	4 Leads 36 AWG 36" (914) Long (36 AWG Shielded Teflon Cable Optional)									
PHYSICAL	Weight	.4 Gram (Nom.) Excluding Module and Leads									
F	Pressure Sensing Principle	Fully	Active Four Arr	m Wheatstone	Bridge Dielect	rically Isolated	Silicon on Sil	icon Patented	Leadless Tech	nology	

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



SHORT LENGTH PRESSURE TRANSDUCER

XCL-152 SERIES

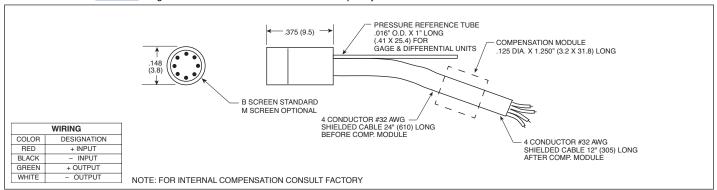
- Designed For Harsh Environments
- Ideal For Turbine Engine Probes and Wind Tunnel Applications
- Patented Leadless Technology VIS®
- Designed For Both Static and Dynamic Response
- Suitable For Use in Most Conductive Liquids and Gases

The XCL-152 design features Kulite's patented leadless technology. This allows for a very rugged package suited for probes, pressure rakes and other similar test set ups. This transducer is well suited for both dynamic and static pressure measurements in benign or harsh environments.

Part performance not guaranteed if used in water.



Kulite recommends the KSC Series of signal conditioner to maximize the measurement capability of the XCL-152 transducer.



	Pressure Range	0.7 10	1.0 15	1.7 25	3.5 50	7 100	17 250	35 500	70 BAR 1000 PSI		
INPUT	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									
	Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory									
	Rated Electrical Excitation	10 VDC/AC									
	Maximum Electrical Excitation	12 VDC/AC									
	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.)									
DUTPUT	Resolution	Infinitesimal									
0	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	175	200	240	300	380	550	700	1000		
	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	4.0x10 ⁻⁵		
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
	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									
ME	Thermal Zero Shift	± 1% FS/100°F (Typ.)									
NO.	Thermal Sensitivity Shift	± 1% /100°F (Typ.)									
Ž	Steady Acceleration	10,000g. (Max.)									
ш	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)									
AL	Electrical Connection	4 Conductor 32 AWG Shielded Cable 36" Long									
PHYSICAL	Weight	.3 Gram (Nom.) Excluding Module and Leads									
PHY	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. (J) 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.