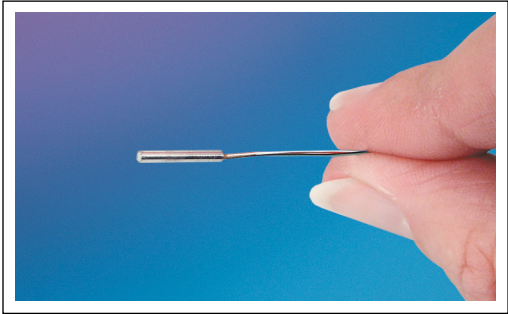


Kulite®
ULTRAMINIATURE
PRESSURE TRANSDUCER

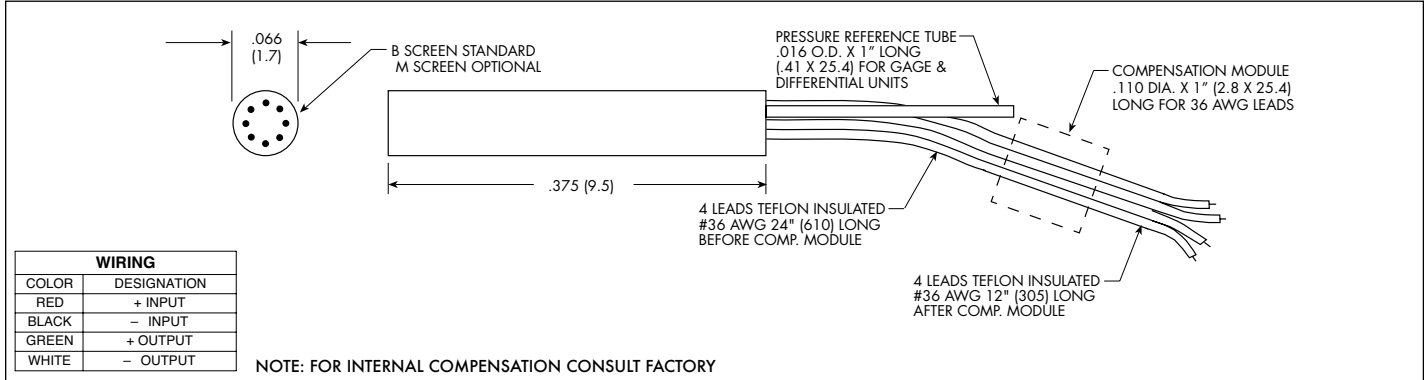
XCQ-062 SERIES

- Ideal For Turbine Engine Probes and Wind Tunnel Applications
- 50 Year History Of Successful Applications In Wind Tunnel And Flight Test Programs
- Patented Silicon on Silicon Integrated Sensor **VIS®**
- Size And Shape Ideal For Incorporation In User Designed Probes
- Excellent Static And Dynamic Performance



The XCQ-062 Series 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.

Kulite recommends the **KSC Series** of signal conditioners to maximize the measurement capability of the XCQ-062 transducer.



	0.35	0.7	1.7	3.5	7	17	35	70 BAR
	5	10	25	50	100	250	500	1000 PSI
INPUT	Pressure Range		Absolute, Gage, Differential		Absolute, Gage, Sealed Gage, Differential		Absolute, Sealed Gage	
	Operational Mode		2 Times Rated Pressure		3 Times Rated Pressure		All Nonconductive, Noncorrosive Liquids or Gases	
	Over Pressure		10 VDC/AC		12 VDC/AC		1000 Ohms (Min.)	
	Burst Pressure		1000 Ohms (Nom.)		100 mV (Nom.)		± 5 mV (Typ.)	
	Pressure Media		± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)		Infinitesimal		150 175 240 300 380 550 700 1000	
	Rated Electrical Excitation		1.5x10 ⁻³ 1.0x10 ⁻³ 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵ 4.5x10 ⁻⁵		100 Megohm Min. @ 50 VDC			
	Maximum Electrical Excitation		-65°F to +250°F (-55°C to +120°C)		80°F to +180°F (25°C to +80°C) Any 100°F Range Within The Operating Range on Request			
	Input Impedance		± 1% FS/100°F (Typ.)		± 1% /100°F (Typ.)			
	Output Impedance		10,000g. (Max.)		10-2,000 Hz Sine, 100g. (Max.)			
	Full Scale Output (FSO)							
	Residual Unbalance							
	Combined Non-Linearity, Hysteresis and Repeatability							
	Resolution							
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)							
	Acceleration Sensitivity % FS/g Perpendicular							
	Insulation Resistance							
ENVIRONMENTAL	Operating Temperature Range							
	Compensated Temperature Range							
	Thermal Zero Shift							
	Thermal Sensitivity Shift							
	Steady Acceleration							
	Linear Vibration							
PHYSICAL	Electrical Connection							
	Weight							
	Pressure Sensing Principle							

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.