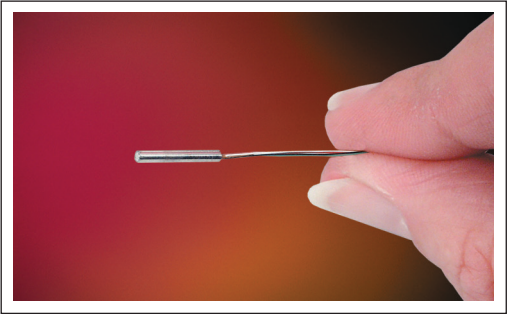




# HIGH TEMPERATURE ULTRAMINIATURE PRESSURE TRANSDUCER

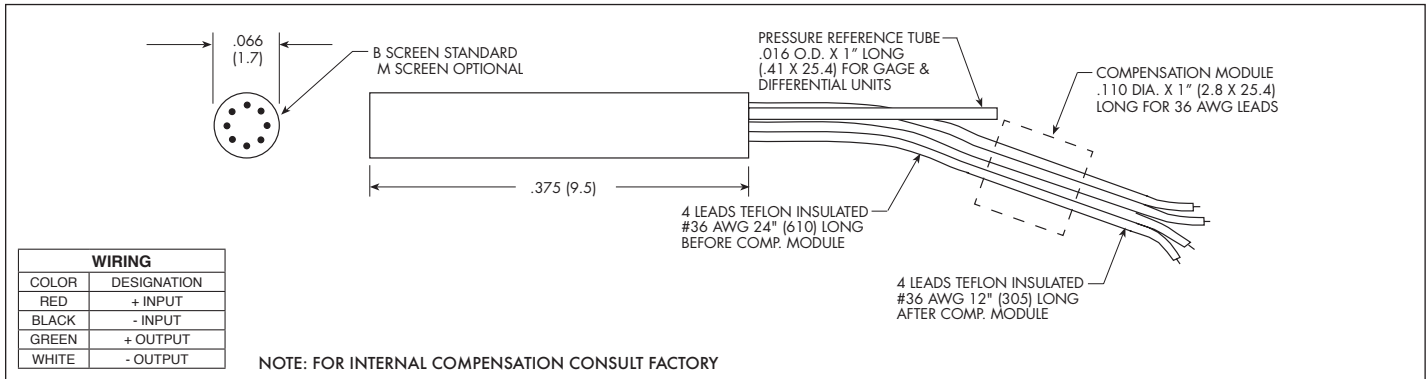
## XCE-062 SERIES

- Wide Temperature Capability -65°F To 525°F
- 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**<sup>®</sup>
- Size And Shape Ideal For Incorporation In User Designed Probes
- Excellent Static And Dynamic Performance



The XCE-062 Series allow 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. Its wide operating temperature range (-65°F to +525°F) makes it ideal for numerous applications in Aerospace and other areas of industry.

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



	0.35 5	0.7 10	1.7 25	3.5 50	7 100	17 250	35 500	70 BAR 1000 PSI		
<b>INPUT</b>	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		All Nonconductive, Noncorrosive Liquids or Gases							
	Rated Electrical Excitation		10 VDC/AC							
	Maximum Electrical Excitation		12 VDC/AC							
	Input Impedance		1000 Ohms (Min.)							
<b>OUTPUT</b>	Output Impedance		1000 Ohms (Nom.)							
	Full Scale Output (FSO)		100 mV (Nom.)							
	Residual Unbalance		± 5 mV (Typ.)							
	Combined Non-Linearity, Hysteresis and Repeatability		± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)							
	Resolution		Infinitesimal							
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)		150	175	240	300	380	550	700	1000
	Acceleration Sensitivity % FS/g Perpendicular		1.5x10 <sup>-3</sup>	1.0x10 <sup>-3</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>	4.5x10 <sup>-5</sup>
	Insulation Resistance		100 Megohm Min. @ 50 VDC							
<b>ENVIRONMENTAL</b>	Operating Temperature Range		-65°F to +525°F (-55°C to +273°C)							
	Compensated Temperature Range		80°F to +450°F (25°C to +235°C)							
	Thermal Zero Shift		± 1% FS/100°F (Typ.)							
	Thermal Sensitivity Shift		± 1% /100°F (Typ.)							
	Steady Acceleration		10,000g. (Max.)							
	Linear Vibration		10-2,000 Hz Sine, 100g. (Max.)							
<b>PHYSICAL</b>	Electrical Connection		4 Leads 36 AWG 36" Long							
	Weight		.2 Gram (Nom.) Excluding Module and Leads							
	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 applications. For products designed to be used in production programs, please consult the factory.