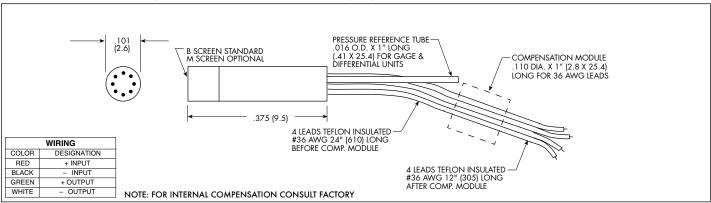


- **XCEL-100 SERIES**
- Wide Temperature Capability -65°F To 525°F
- Designed For Harsh Environments
- Ideal For Turbine Engine Probes and Wind Tunnel Applications
- Patented Leadless Technology VIS[®]
- · Designed For Both Static and Dynamic Response
- Suitable For Use in Most Conductive Liquids and Gases

The XCEL-100 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. 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 XCEL-100 transducer.



WHITE - OUTPUT NOTE: FOR INTERNAL COMPENSATION CONSULT FACTORY AFTER COMP. MODULE									
	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					age		
	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							
	Maximum Electrical Excitation	12 VDC							
	Input Impedance	1000 Ohms (Min.)							
ENVIRONMENTAL OUTPUT	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.)	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 +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.)							
ÄL	Electrical Connection	4 Leads 36 AWG 36" Long (36 AWG Shielded Teflon Cable Optional)							
PHYSICAL	Weight	.4 Gram (Nom.) Excluding Module and Leads							
Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Pate								ted Leadless Ted	chnology

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.