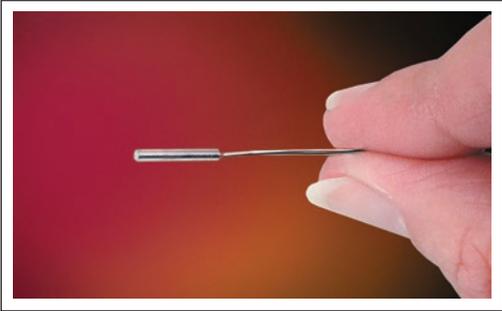




HIGH TEMPERATURE ULTRAMINIATURE PRESSURE TRANSDUCER

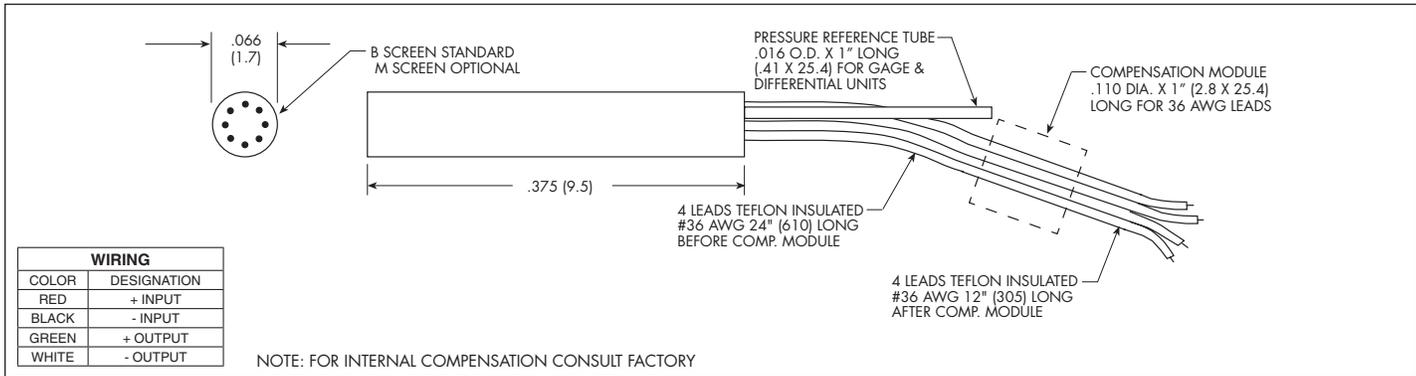
XCE-062 SERIES

- 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**[®]
- 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-2** signal conditioner 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
INPUT	Operational Mode		Absolute, Gage, Differential		Absolute, Gage, Sealed Gage, Differential		Absolute, Sealed Gage	
	Over Pressure		2 Times Rated Pressure		3 Times Rated Pressure			
	Burst Pressure		All Nonconductive, Noncorrosive Liquids or Gases		10 VDC/AC		12 VDC/AC	
	Pressure Media		1000 Ohms (Min.)		1000 Ohms (Nom.)		100 mV (Nom.)	
	Rated Electrical Excitation		12 VDC/AC		± 5 mV (Typ.)		± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)	
	Maximum Electrical Excitation		Infinitesimal		150		175	
	Input Impedance		300		380		550	
	Output Impedance		700		1000			
	Full Scale Output (FSO)		1.5x10 ⁻³		1.0x10 ⁻³		5.0x10 ⁻⁴	
	Residual Unbalance		3.0x10 ⁻⁴		1.5x10 ⁻⁴		1.0x10 ⁻⁴	
	Combined Non-Linearity, Hysteresis and Repeatability		100 Megohm Min. @ 50 VDC		10,000g. (Max.)		10-2,000 Hz Sine, 100g. (Max.)	
	Resolution		-65°F to +525°F (-55°C to +273°C)		80°F to +450°F (25°C to +235°C)		± 1% FS/100°F (Typ.)	
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)		± 1% /100°F (Typ.)		Steady Acceleration		Linear Vibration	
	Acceleration Sensitivity % FS/g Perpendicular		10,000g. (Max.)		10-2,000 Hz Sine, 100g. (Max.)		4 Leads 36 AWG 36" Long	
	Insulation Resistance		10,000g. (Max.)		.2 Gram (Nom.) Excluding Module and Leads		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon	
ENVIRONMENTAL	Operating Temperature Range		-65°F to +525°F (-55°C to +273°C)		80°F to +450°F (25°C to +235°C)		± 1% FS/100°F (Typ.)	
	Compensated Temperature Range		± 1% /100°F (Typ.)		Steady Acceleration		Linear Vibration	
	Thermal Zero Shift		10,000g. (Max.)		10-2,000 Hz Sine, 100g. (Max.)		4 Leads 36 AWG 36" Long	
	Thermal Sensitivity Shift		.2 Gram (Nom.) Excluding Module and Leads		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			
PHYSICAL	Electrical Connection		4 Leads 36 AWG 36" Long		.2 Gram (Nom.) Excluding Module and Leads		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon	
	Weight		.2 Gram (Nom.) Excluding Module and Leads		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			
	Pressure Sensing Principle		Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon					

Note: Custom pressure range
Continuous development and refi
Kulite miniature pressure transducers are intended for use in
designed to be used in production programs, please consult the factory.

All dimensions nominal. (L)
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