



STANDARD VERSION MINIATURE PRESSURE TRANSDUCER

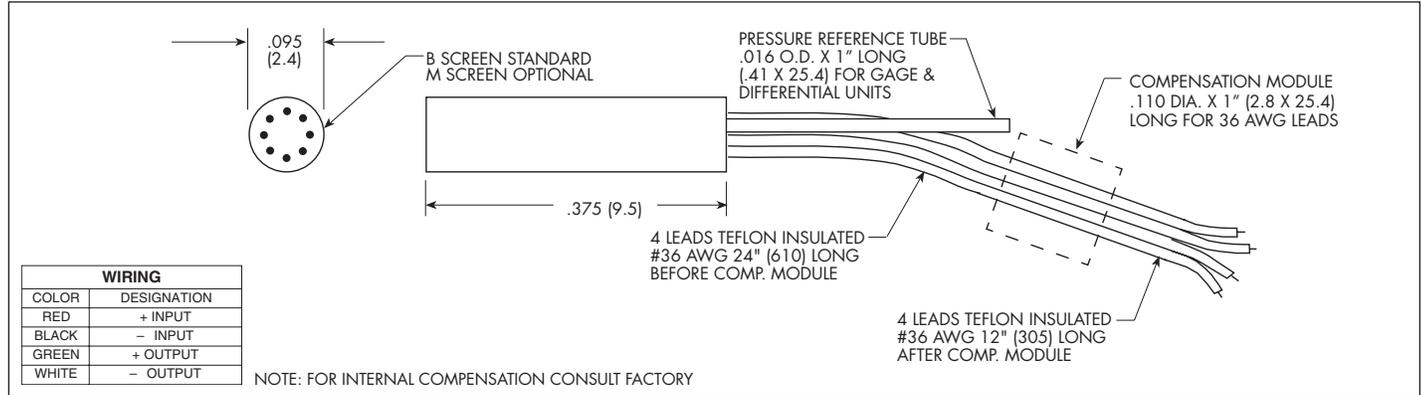
XCQ-093 SERIES

- 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-093 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-2](#) signal conditioner to maximize the measurement capability of the XCQ-093 transducer.



	0.35 5	0.7 10	1.7 25	3.5 50	7 100	17 250	35 500	70 BAR 1000 PSI
INPUT	Pressure Range		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.)							
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							
	150	175	240	300	380	550	700	1000
	1.5x10 ⁻³	1.0x10 ⁻³	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.5x10 ⁻⁵
	Insulation Resistance: 100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL	Operating Temperature Range: -65°F to +250°F (-55°C to +120°C)							
	Compensated Temperature Range: 80°F to +180°F (25°C to +80°C) Any 100°F Range Within The Operating Range on Request							
	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.)							
PHYSICAL	Electrical Connection: 4 Leads 36 AWG 36" Long							
	Weight: .4 Gram (Nom.) Excluding Module and Leads							
	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. (N)
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