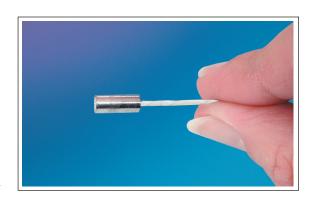


SHORT LENGTH PRESSURE TRANSDUCER

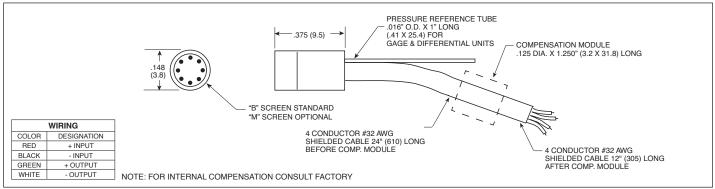
XCQ-152 SERIES

- · High Natural Frequency
- Patented Silicon on Silicon Integrated Sensor VIS®
- Available 5 PSI To 1000 PSI
- Short Body
- Size And Shape Ideal For Incorporation In User Designed Probes

The XCQ-152 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-152 transducer.



	Pressure Range	0.35 5	0.7 10	1 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			
	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.)									
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 (KHz) (Typ.)	150	175	200	240	300	380	550	700	1000	
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	1.0x10 ⁻³	6.5x10 ⁻⁴	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									
	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	20g Peak, Sine 10 to 2000 Hz									
PHYSICAL	Electrical Connection	4 Conductor 32 AWG Shielded Cable 36" (914) Long									
	Weight	.6 Gram (Nom.) Excluding Module and Leads									
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon									
Moto	Custom pressure ranges accuracies and mechanical configurations available. Dimensions are in inches Dimensions in parenthesis are in millimeters. All dimensions nominal (C)									2)	

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (C) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2020 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.