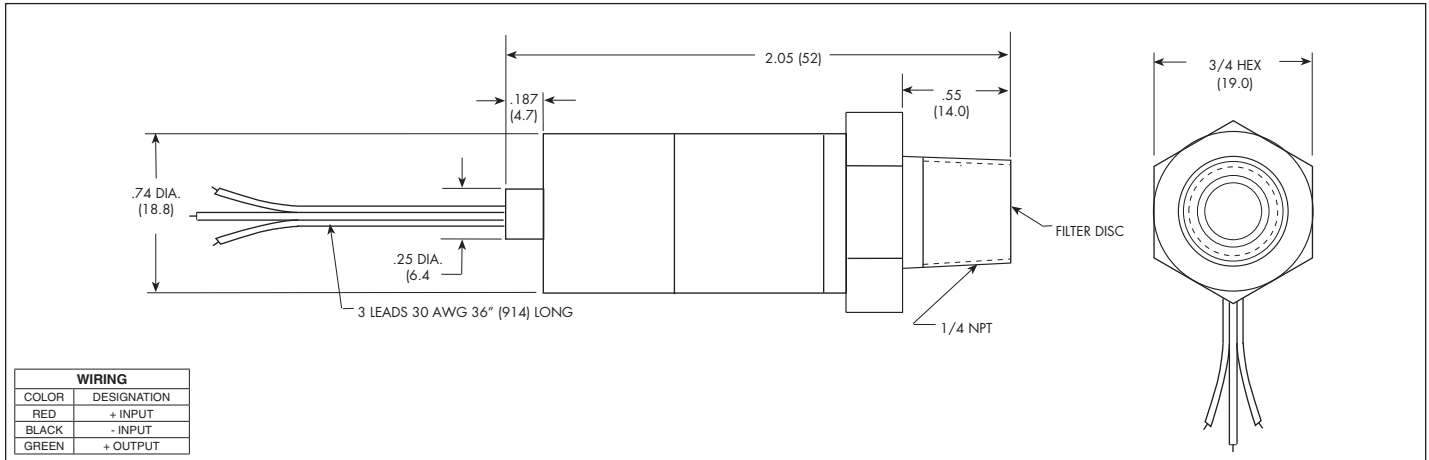




## 5 VDC OUTPUT PRESSURE TRANSDUCER

### ETQ-500 SERIES

- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- All Welded Construction
- Excellent Stability and Reliability
- Secondary Containment On Absolute And Sealed Gage Units
- Silicon on Silicon Integrated Sensor **VIS®**



	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 PSI	
<b>INPUT</b>	Pressure Range	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 PSI
	Operational Mode	Absolute, Sealed Gage						
	Over Pressure	2 Times Rated Pressure to 1000 PSI (70 BAR) 1.5 Times Rated Pressure Above 1000 PSI to a Max. of 30000 PSI (2100 BAR)						
	Burst Pressure	3 Times Rated Pressure						
	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases						
	Maximum Electrical Current	25 mA						
	Rated Electrical Excitation	8 - 16 VDC			13 - 32 VDC			
<b>OUTPUT</b>	Full Scale Reading	5 VDC ± 150 mV			5 VDC ± 150 mV or 10 VDC ± 300 mV			
	Output Impedance	200 Ohms (Nom.)						
	Bandwidth (-3dB)	DC to 3000 Hz						
	Residual Unbalance	0.5V ± 75mV						
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% BFSL (Typ.), ± 0.5% BFSL (Max.)						
	Resolution	Infinitesimal						
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	Greater Than 400 KHz						
	Acceleration Sensitivity % FS/g Perpendicular	1.0x10 <sup>-3</sup>	5.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>	1.1x10 <sup>-4</sup>	6.2x10 <sup>-5</sup>	2.6x10 <sup>-5</sup>	1.5x10 <sup>-5</sup>
	Insulation Resistance	100 Megohm Min. @ 50 VDC						
	<b>ENVIRONMENTAL</b>	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)					
Compensated Temperature Range		0°F to +212°F (-18°C to +100°C) Other Ranges Quoted on Request						
Thermal Zero Shift		± 3% FS/100°F (Typ.)						
Thermal Sensitivity Shift		± 3% /100°F (Typ.)						
Linear Vibration		10-2,000 Hz Sine, 100g (Max.)						
<b>PHYSICAL</b>	Mechanical Shock	20g half Sine Wave 11 msec. Duration						
	Electrical Connection	3 30 AWG Leads 30" (762) Long						
	Weight	24.5 Grams (Max.) Excluding Cable						
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon						
Mounting Torque	80 Inch-Pounds (Max.)							

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (I) 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.