



## ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER

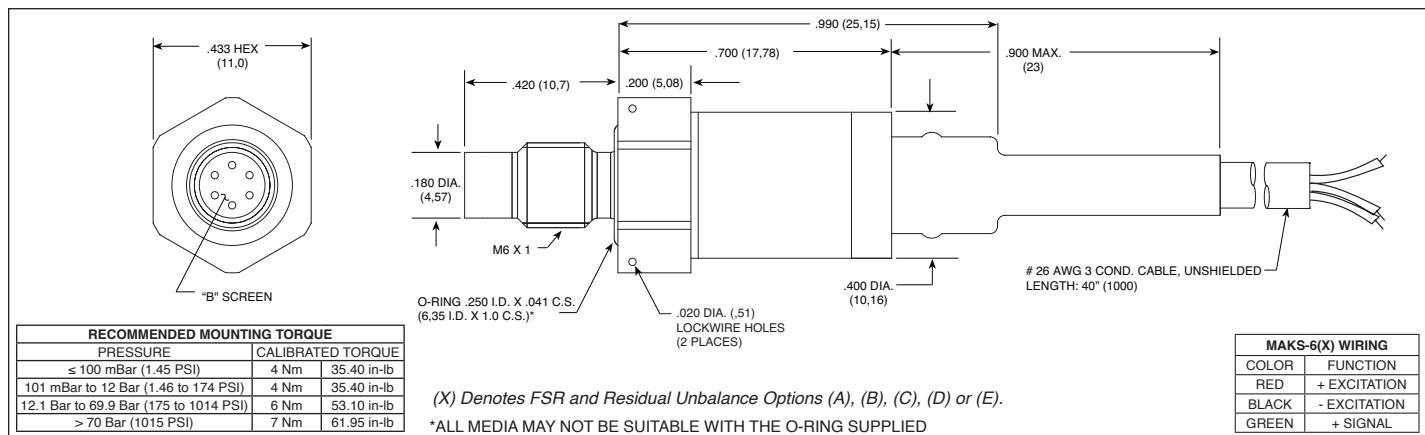
### MAKS-6(X)

- Smallest High Performance Amplified Transducer Worldwide
- High Temperature Electronics 392°F (200°C)
- Rugged Design Provides Compatibility With Most Conductive Media
- Patented Leadless Technology **VIS®**
- Silicon on Silicon Integrated Sensor **VIS®**
- High Over Pressure Capability
- Adaptable For A Wide Variety Of Applications
- Designed and Engineered For Severe Environmental Conditions



The MAKS-6(X) is one of the newest generation of Kulite's smallest miniature amplified transducers currently available. The sensing sub-assembly is protected from mechanical damage by a protective screen, which has been shown to have minimal influence on the frequency response of the sensor.

Incorporation of Kulite proprietary high temperature 392°F (200°C) electronics within the main body allows for operation from an unregulated power supply of 8 to 16VDC.



<b>INPUT</b>	Pressure Range	1 15	5 73	10 145	15 218	80 1160	140 2030	210 3045	300 4350	350 BAR 5076 PSI						
	Operational Mode	Absolute, Sealed Gage														
	Over Pressure	2 Times Rated Pressure ≤ 70 BAR (1015 PSI), 1.5 Times Rated Pressure > 70 BAR (1015 PSI), Max. Pressure 350 BAR (5076 PSI)														
	Burst Pressure	3 Times Rated Pressure Max. Pressure: 350 BAR (5076 PSI)														
	Pressure Media	Most Conductive Liquids and Gases														
	Rated Electrical Excitation	8 - 16 VDC														
	Maximum Electrical Current	10 mA (Max.)														
	Output Impedance	5 Ohms (Typ.)														
	Full Scale Reading (X)	4.5V ± 50 mV (A)		4.9V ± 50 mV (B)		4.9V ± 50 mV (C)		4.5V ± 50 mV (D)		4.75V ± 50 mV (E)						
	Bandwidth (-3dB)	DC to 5 kHz														
<b>OUTPUT</b>	Residual Unbalance (X)	500 ± 50 mV (A)		350 ± 50 mV (B)		300 ± 50 mV (C)		150 ± 50 mV (D)		300 ± 50 mV (E)						
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.25% FSO (Max.)														
	Resolution	Infinitesimal														
	Acceleration Sensitivity % FS/g Perpendicular	6.5x10 <sup>-4</sup> 2.3x10 <sup>-4</sup> 1.4x10 <sup>-4</sup> 1.1x10 <sup>-4</sup> 3.6x10 <sup>-5</sup> 2.5x10 <sup>-5</sup> 1.9x10 <sup>-5</sup> 1.7x10 <sup>-5</sup> 1.5x10 <sup>-5</sup>														
	Insulation Resistance	> 100 Megohm Min. @ 50 VDC														
	Operating Temperature Range	-4°F to +392°F (-20°C to +200°C)														
	Compensated Temperature Range	+68°F to +392°F (+20°C to +200°C)														
	Total Error Band (Excluding End Points)	± 1.5% FS/100°F ≤ 217.5 PSI (15 BAR), ± .75% FS/100°F ≥ 217.5 PSI (15 BAR)														
	Linear Vibration	80g Peak, Sine 5 to 5000 Hz														
	Mechanical Shock	20g Half Sine Wave 11 msec. Duration														
<b>PHYSICAL ENVIRONMENTAL</b>	Electrical Connection	3 Conductor 26 AWG Cable 40" (1000) Long														
	Weight	10 Grams (Max.) Excluding Cable														
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon														
	Mounting Torque	See Table														

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (J) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2016 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.