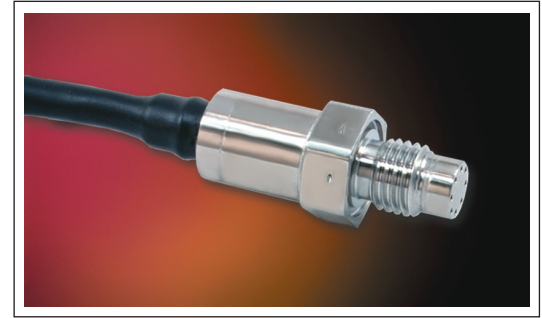




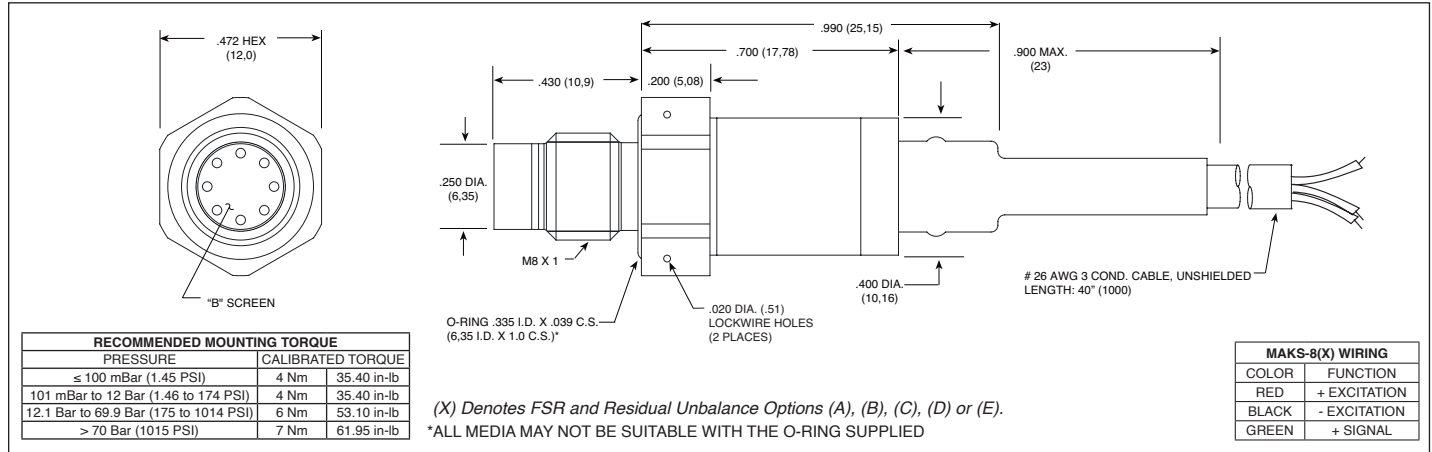
ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER

MAKS-8(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**® (Can Be Leadless-Oil Fill or Oil Fill)
- 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-8(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.



	1	5	10	15	20	50	70	140	210	350	500 BAR
Pressure Range	15	73	145	218	290	725	1015	2030	3045	5076	7251 PSI
Operational Mode	Absolute, Sealed Gage										
Over Pressure	2 Times Rated Pressure ≤ 75 BAR (1000 PSI), 1.5 Times Rated Pressure > 70 BAR (1000 PSI), Max. Pressure 550 Bar (8000 PSI)										
Burst Pressure	3 Times Rated Pressure to a Maximum of 690 Bar (10,000 PSI)										
Pressure Media	Most Conductive Liquids & Gases					Any Liquid or Gas Compatible With 15-5 PH, 316 SS, Inconel 625					
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										
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 ⁻⁴	2.3x10 ⁻⁴	1.4x10 ⁻⁴	1.1x10 ⁻⁴	9.5x10 ⁻⁵	5.3x10 ⁻⁵	3.6x10 ⁻⁵	2.5x10 ⁻⁵	1.9x10 ⁻⁵	1.5x10 ⁻⁵	1.2x10 ⁻⁵
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										
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. (I) 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.