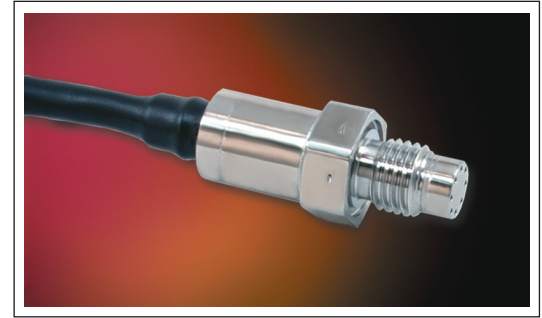




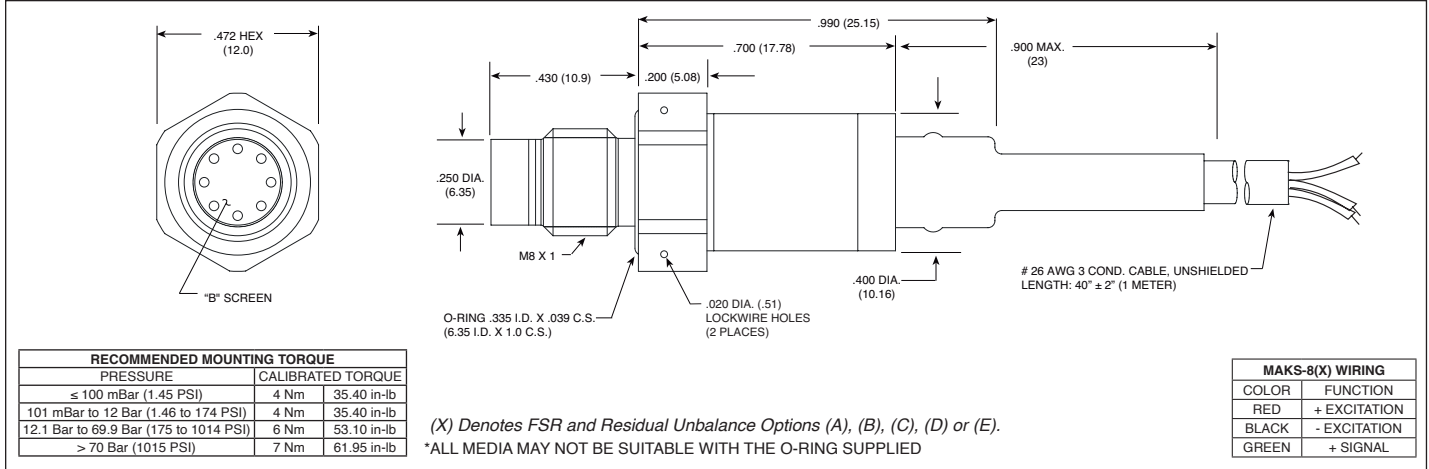
ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER

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®
- 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	80	140	210	300	700 BAR
Pressure Range	15	73	145	218	1160	2030	3045	4350	10,000 PSI
Operational Mode	Absolute, Sealed Gage								
Over Pressure	2 Times Rated Pressure < 35 BAR (508 PSI), 1.5 Times Rated Pressure ≥ 35 BAR (508 PSI), Max. Pressure 827 Bar (12000 PSI)								
Burst Pressure	3 Times Rated Pressure to a Maximum of 827 Bar (12000 PSI)								
Pressure Media	Most Conductive Liquids and Gases				Any Liquid or Gas Compatible With 15-5 PH and 316 SS				
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	3.6x10 ⁻⁵	2.5x10 ⁻⁵	1.9x10 ⁻⁵	1.5x10 ⁻⁵	1.3x10 ⁻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	20g Peak, Sine 10 to 2000 Hz								
Mechanical Shock	20g Half Sine Wave 11 msec. Duration								
Electrical Connection	3 Conductor 26 AWG Cable 1 Meter 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. (H) 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.