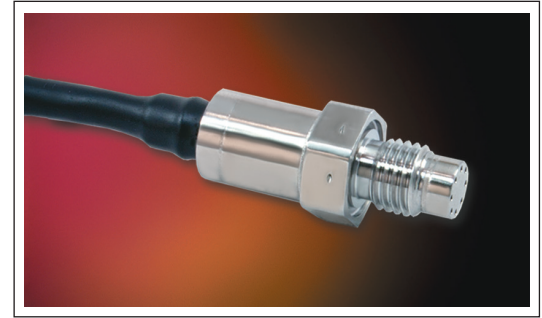




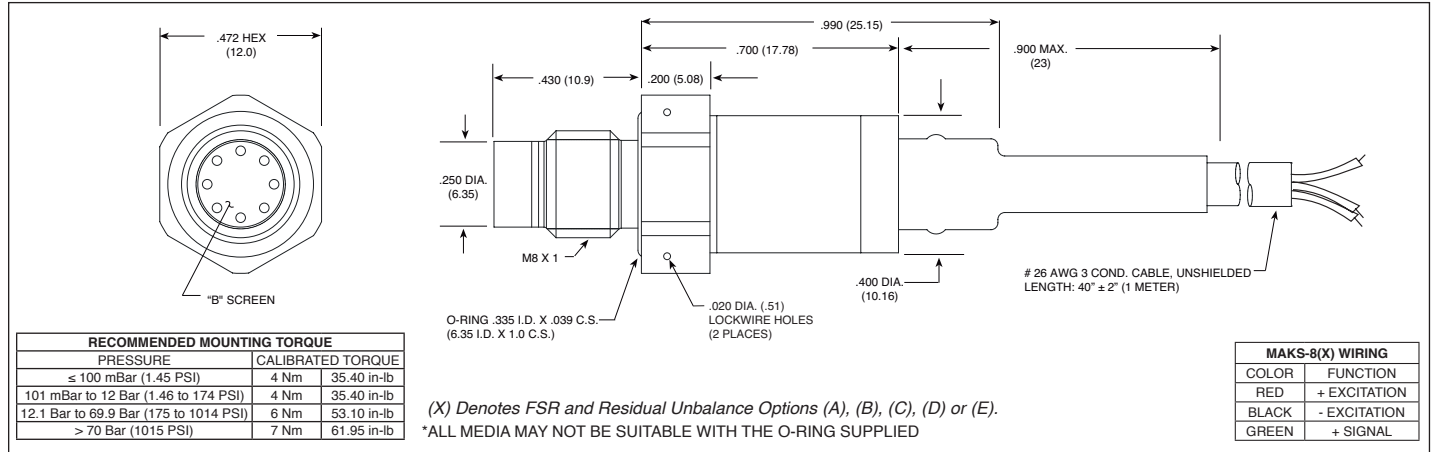
ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER

MAKS-8(X)

- Smallest High Performance Amplified Transducer Worldwide
- High Temperature Electronics 392°F (200°C)
- Rugged Design Provides Compatibility With Most Corrosive and 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.



INPUT	Pressure Range	1 15	5 73	10 145	15 218	80 1160	140 2030	210 3045	300 4350	700 10,000	
	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									
OUTPUT	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									
	ENVIRONMENTAL	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°C ≤ 217.5 PSI (15 BAR), ± .75% FS/100°C ≥ 217.5 PSI (15 BAR)									
Linear Vibration		100g Peak, Sine up to 5000 Hz									
PHYSICAL	Mechanical Shock	100g 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. (E) 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.