

## ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER

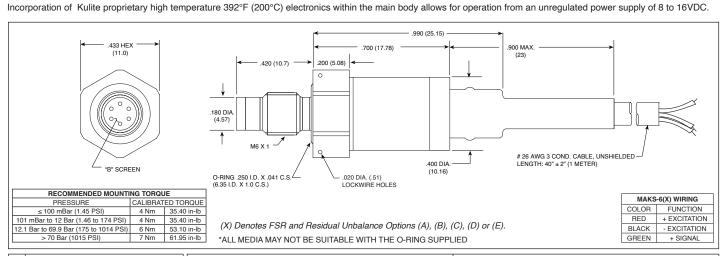
## MAKS-6(X)

- 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®
- · 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.



INPUT	Pressure Range	1 15	5 73	10 145	15 218	80 1160	140 2030	210 3045	300 BAR 4350 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 350 BAR (5076 PSI)							
	Burst Pressure	3 Times Rated Pressure Max. Pressure: 350 BAR (5076 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	Output Impedance	5 Ohms (Typ.)							
	Full Scale Reading (X)	4.5V ± 5	50 mV (A)	$4.9V \pm 50 \text{ mV (B)}$	$4.9V \pm 50$	mV (C)	4.5V ± 50 mV (D)	4.75V ± 50	0 mV (E)
	Bandwidth (-3dB)	DC to 5 kHz							
	Residual Unbalance (X)	$500 \pm 5$	60 mV (A)	$350 \pm 50 \text{ mV (B)}$	300 ± 50 mV (C)		150 ± 50 mV (D)	$0 \pm 50 \text{ mV (D)}$ 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>	1.5x10 <sup>-5</sup>
	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°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							
PHYSICAL	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							
古	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.