



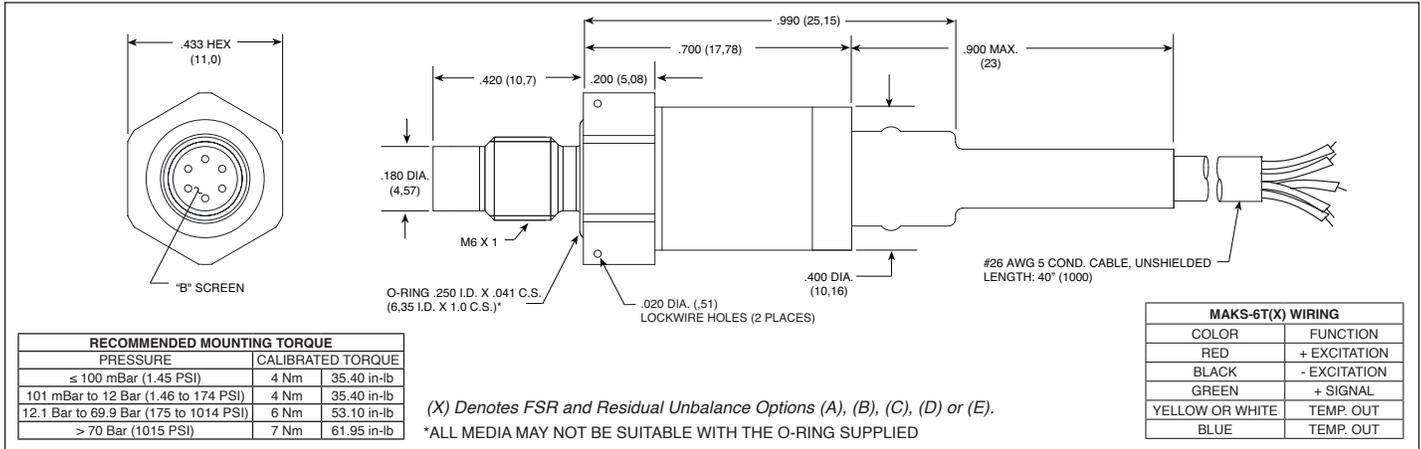
# ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

## MAKS-6T(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-6T(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	5	10	15	80	140	210	300 BAR	
		15	73	145	218	1160	2030	3045	4350 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					Any Liquid or Gas Compatible with 15-5 S/S, Kovar and SiO <sub>2</sub>			
	Rated Electrical Excitation	8 - 16 VDC								
OUTPUT	Maximum Electrical Current	10 mA (Max.)								
	RTD Excitation	0.3mA (1mA Max.)								
	RTD	1000 Ohms Platinum, DIN EN 60751 Tables, Class A (65% Response Time 8.6 Seconds Max.) in Liquid								
	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 <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>	
ENVIRONMENTAL	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 10 to 2000 Hz								
PHYSICAL	Mechanical Shock	20g Half Sine Wave 11 msec. Duration								
	Electrical Connection	5 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. (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.