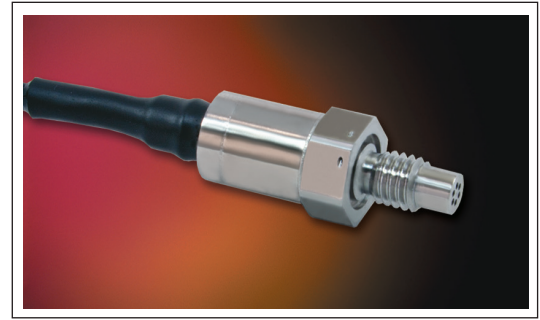




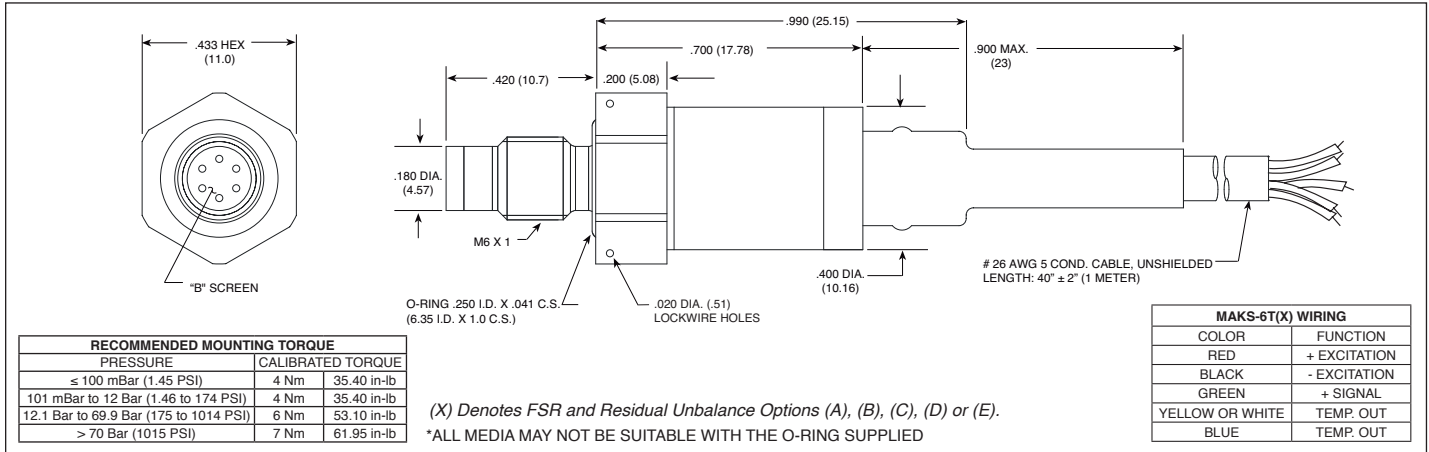
# ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

## MAKS-6T(X)

- Smallest High Performance Amplified Transducer Worldwide
- High Temperature Electronics 392°F (200°C)
- Rugged Design Provides Compatibility With Most Corrosive and Conductive Media
- Patented Leadless Technology **VIS**<sup>®</sup>
- 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.



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