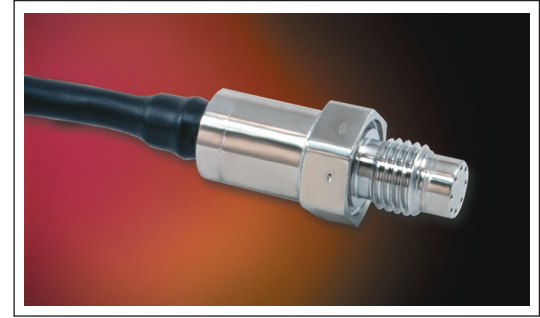


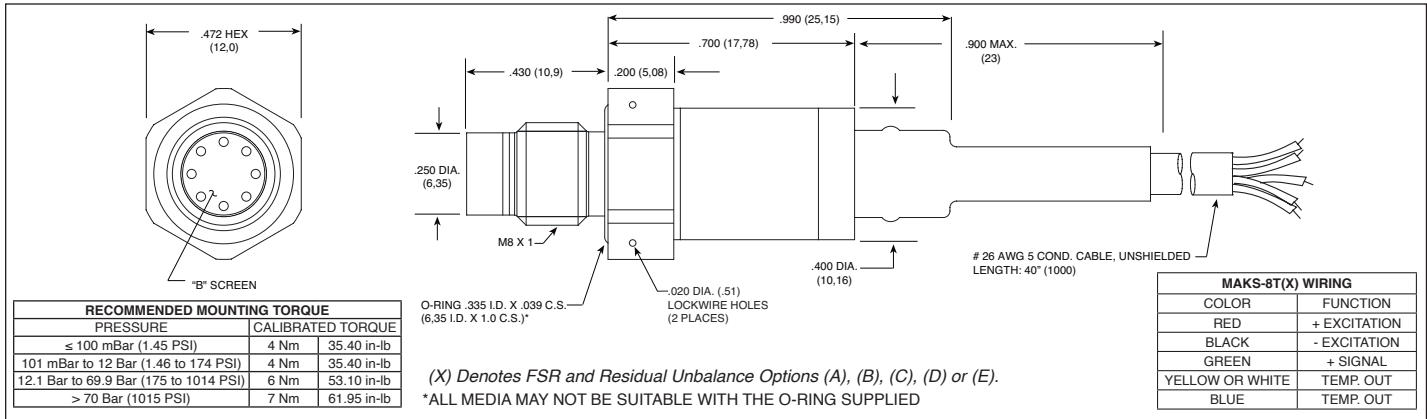


ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR MAKS-8T(X)

- Smallest High Performance Amplified Transducer Worldwide
- High Temperature Electronics 392°F (200°C)
- Rugged Design Provides Compatibility With Most Conductive Media
- Silicon on Silicon Integrated Sensor **VIS**®
- High Over Pressure Capability
- Adaptable For A Wide Variety Of Applications
- Designed and Engineered For Severe Environmental Conditions
- Internal RTD



The MAKS-8T(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	15 218	20 290	50 725	70 1015	100 1450	140 2030	210 3045	350 5076	500 BAR 7251 PSI	
	Operational Mode	Absolute, Sealed Gage									
	Over Pressure	2 Times Rated Pressure ≤ 70 BAR (1000 PSI), 1.5 Times Rated Pressure > 70 BAR (1000 PSI), Max. Pressure 550 BAR (8000 PSI)									
	Burst Pressure	3 Times Rated Pressure to a Maximum of 690 BAR (10,000 PSI)									
	Pressure Media	Any Liquid or Gas Compatible With 15-5 PH and 316 SS, Inconel 625									
	Rated Electrical Excitation	8 - 16 VDC									
	Maximum Electrical Current	10 mA (Max.)									
	RTD Excitation	0.3mA (1mA Max.)									
OUTPUT	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									
PHYSICAL ENVIRONMENTAL	Acceleration Sensitivity % FS/g Perpendicular	1.1x10 ⁻⁴	9.4x10 ⁻⁴	5.3x10 ⁻⁵	4.3x10 ⁻⁵	3.5x10 ⁻⁵	2.5x10 ⁻⁵	1.9x10 ⁻⁵	1.5x10 ⁻⁵	1.2x10 ⁻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	80g Peak, Sine 5 to 5000 Hz									
	Mechanical Shock	20g Half Sine Wave 11 msec. Duration									
	Electrical Connection	5 Conductor 26 AWG Cable 40" (1000) 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. (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.