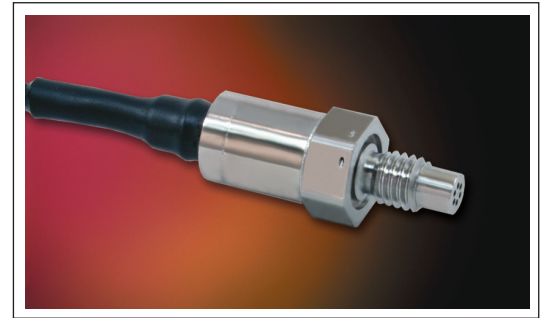




ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER

MAKS-6(X)

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

RECOMMENDED MOUNTING TORQUE

PRESSURE	CALIBRATED TORQUE
≤ 100 mBar (1.45 PSI)	4 Nm 35.40 in-lb
101 mBar to 12 Bar (1.46 to 174 PSI)	4 Nm 35.40 in-lb
12.1 Bar to 69.9 Bar (175 to 1014 PSI)	6 Nm 53.10 in-lb
> 70 Bar (1015 PSI)	7 Nm 61.95 in-lb

MAKS-6(X) WIRING

COLOR	FUNCTION
RED	+ EXCITATION
BLACK	- EXCITATION
GREEN	+ SIGNAL

(X) Denotes FSR and Residual Unbalance Options (A), (B), (C), (D) or (E).
 *ALL MEDIA MAY NOT BE SUITABLE WITH THE O-RING SUPPLIED

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 ± 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.)								
PHYSICAL ENVIRONMENTAL	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	
	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)								
PHYSICAL	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								
	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. (H) 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.