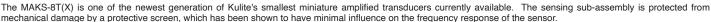


## ULTRAMINIATURE 5V OUTPUT HIGH TEMPERATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

## MAKS-8T(X)

- · Smallest High Performance Amplified Transducer Worldwide
- · High Temperature Electronics 392°F (200°C)
- Rugged Design Provides Compatibility With Most Conductive Media
- Patented Leadless Technology VIS®
- · High Over Pressure Capability
- · Adaptable For A Wide Variety Of Applications
- Designed and Engineered For Severe Environmental Conditions



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.



.472 HEX (12.0)			.430 (10.9 250 DIA. (6.35)	9) → 200 (5.08	.700 (17.78)	990 (25.15)		5 COND. CABLE, UNSI 10"±2" (1 METER)	HELDED	<i>{</i> }
"B" SCREEN									MAKS-8T(X) WIRING	
RECOMMENDED MOUNTING TORQUE			O-RING .335 I.D. X .039 C.S.—/ LOCKWIRE HOLES (6.35 I.D. X 1.0 C.S.) (2 PLACES)						COLOR	FUNCTION
PRESSURE CALIBRATED TORQUE			(0.00 1.5. / 1.0 0.0.)		(2.2.020)				RED	+ EXCITATION
≤ 100 mBar (1.45 PSI)	4 Nm	35.40 in-lb							BLACK	- EXCITATION
101 mBar to 12 Bar (1.46 to 174 PSI)	4 Nm	35.40 in-lb							GREEN	+ SIGNAL
12.1 Bar to 69.9 Bar (175 to 1014 PSI)	6 Nm	53.10 in-lb	(X) Denotes FSF	R and Residua	l Unbalance (	Options (A), (B), (	C), (D) or (E).		YELLOW OR WHITE	TEMP. OUT
>70 Bar (1015 PSI) 7 Nm 61.95 in-lb *ALL MEDIA MAY NOT BE SUITABLE WITH THE O-RING SUPPLIED								BLUE	TEMP. OUT	
			1	5	10	15	80	140	210	300 BAR

	Pressure Range	1 15	5 73	10 145	15 218	80 1160	140 2030	210 3045	300 BAR 4350 PSI		
INPUT	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 to a Maximum of 350 BAR (5076 PSI)									
	Pressure Media	Most Conductive Liquids and Gases Any Liquid or Gas Compatible With 15-									
	Rated Electrical Excitation	8 - 16 VDC									
	Maximum Electrical Current	10 mA (Max.)									
	RTD Excitation	0.3mA (1mA Max.)									
ENVIRONMENTAL 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 m	V (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>	<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°F ≤ 217.5 PSI (15 BAR), ± .75% FS/100°F ≥ 217.5 PSI (15 BAR)									
\X	Linear Vibration	20g Peak, Sine 10 to 2000 Hz									
H	Mechanical Shock	20g Half Sine Wave 11 msec. Duration									
AL.	Electrical Connection	5 Conductor 26 AWG Cable 1 Meter Long									
2	Weight	10 Grams (Max.) Excluding Cable									
PHYSICAL	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon									
급	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.