@kulite

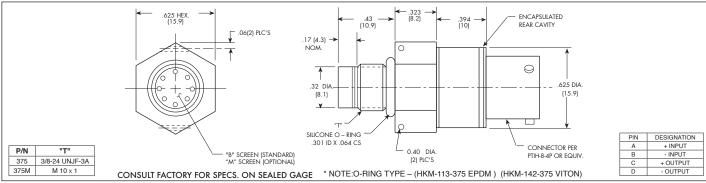
METAL DIAPHRAGM AUTOMOTIVE PRESSURE TRANSDUCERS HKM-113-375 (M) (Braking Systems)

HKM-142-375 (M) (MAP Systems)

- Easy Installation
- High Natural Frequency
- Silicon on Silicon Integrated Sensor VIS® •
- 3/8-24 UNJF 3A or M 10 x 1 Thread
- Wide Temperature Range •
- Compatible With Most Automotive Fluids
- Intrinsically Safe Applications Available •
- (i.e. IS-HKM-113-375 or IS-HKM-142-375)

Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the HKM-113-375 and HKM-142-375 transducers.

(**x**3



		HKM-113-375 HKM-142-375								
	Pressure Range	3.5 50	7 100	17 250	35 500	70 1000	210 3000	350 5000	700 10000	1400 BAR 20000 PSI
	Operational Mode	Absolute, Sealed Gage								
INPUT	Over Pressure	2 Times Rated Pressure to 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI (BAR)								
	Burst Pressure	3 Times Rated Pressure to a Max. of 35000 PSI (2400 BAR)								
	Pressure Media	Any Liquid or Gas Compatible With 15-5 PH or 316 SS (Optional: Inconel 625 Available)								
	Rated Electrical Excitation	10 VDC								
	Maximum Electrical Excitation	12 VDC								
	Input Impedance	1000 Ohms (Min.)								
	Output Impedance	1000 Ohms (Nom.)								
	Full Scale Output (FSO)	100 mV (Nom.)								
	Residual Unbalance	± 5 mV (Typ.)								
5	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)								
OUTPUT	Resolution	Infinitesimal								
OO	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	Greater Than 175 KHz								
	Acceleration Sensitivity % FS/g Perpendicular	3.0x10 ⁻⁴	2.0x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ^{.₅}	1.5x10⁻⁵	1.3x10⁵	8.0x10 ⁻⁶
	Insulation Resistance	100 Megohm Min. @ 50 VDC								
	Operating Temperature Range	-65°F to +400°F (-55°C to +204°C)								
TAL	Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C) -40°F to +250°F (-40°C to +120°C)								
Ē	Thermal Zero Shift	± 1% FS/100°F (Typ.)								
NNC	Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
ENVIRONMENTAL	Steady Acceleration and Linear Vibration	100g Peak, Sine up to 5000 Hz								
Ē	Humidity	100% Relative Humidity								
	Mechanical Shock	100g half Sine Wave 11 msec. Duration								
Ļ	Electrical Connection	PTIH-8-4P Connector or Equivalent								
PHYSICAL	Weight	21 Grams Excluding Cable								
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								
ᆸ	Mounting Torque	80 Inch-Pounds								

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (T) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 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.

KULITE SEMICONDUCTOR PRODUCTS, INC. • One Willow Tree Road • Leonia, New Jersey 07605 • Tel: 201 461-0900 • Fax: 201 461-0990 • http://www.kulite.com

