EXAMPLE MINIATURE HIGH PRESSURE PRESSURE TRANSDUCER

(HKL Series)

Most Aircraft Fluids

Intrinsically Safe Applications

HKM/HKL-233(X)-375 (M) SERIES

- Excellent Stability
- All Welded Construction
- Hermetic Sealed Package
- Robust Construction
- High Natural Frequencies
- Aerospace Quality Components
- "X" Identifies Electrical Connection Option

The HKM/HKL-233(X)-375 is a miniature threaded pressure transducer. The hexagonal head and o-ring seal make it easy to mount and simple to apply.

The HKM-233(X)-375 utilizes a flush metal diaphragm as a force collector. A solid state piezoresistive sensing element is located immediately behind this metal diaphragm which is protected by a metal screen. Force transfer is accomplished via an intervening film of non-compressible silicone oil. This sensing sub assembly is welded to a stainless steel body.

The HKL-233(X)-375 utilizes Kulite's Patented Leadless Technology. A solid state piezoresistive sensing element is protected by a metal screen. This sensing sub assembly is welded to a stainless steel body. This advanced construction results in a highly stable, reliable and rugged instrument with all the



advantages of microcircuitry: significant miniaturization, excellent repeatability, low power consumption, etc. The miniaturization process also yields a marked increase in the natural frequencies of the transducers, making them suitable for use even in shock pressure measurements.

Part performance not guaranteed if used in water (HKL only).

Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the HKM/HKL-233-375 transducers.

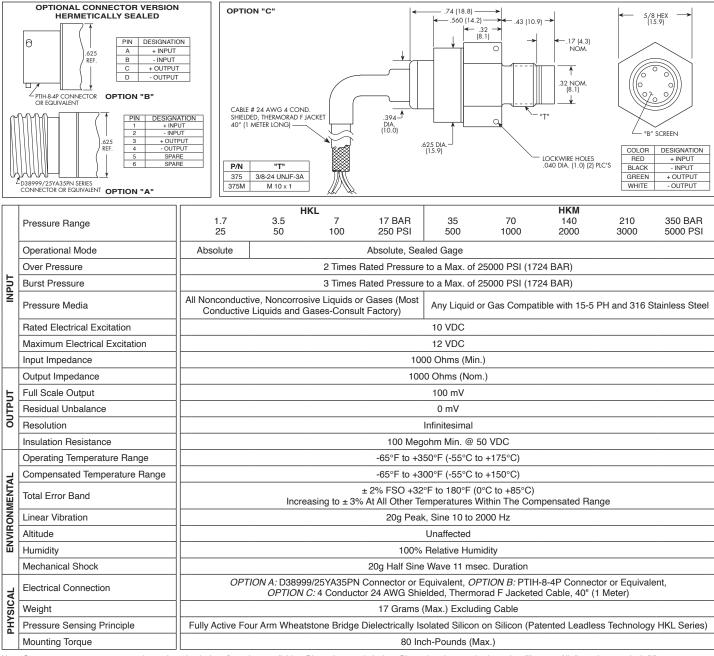
Patented Leadless Technology VIS[®]

Thermorad Jacket Compatible With

Available (i.e. IS-HKM-233(X)-375)

SP

 $\langle \mathbf{E} \mathbf{x} \rangle_{a}$



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