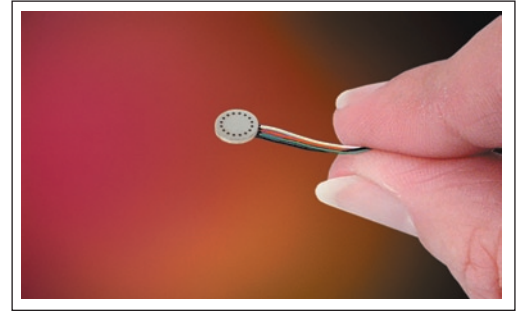




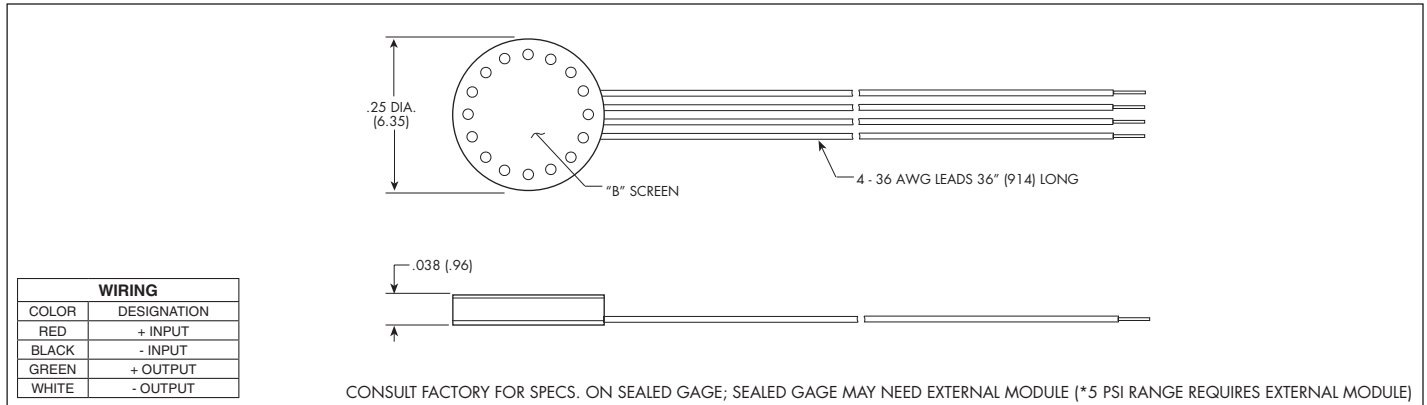
## HIGH TEMPERATURE THIN LINE IS® PRESSURE TRANSDUCER

### LLHT-250 SERIES

- Patented Leadless Technology
- High Natural Frequency
- Excellent Stability
- Excellent Static & Dynamic Performance
- Ideal For Flight Test & Wind Tunnel Applications
- High Temperature Capabilities  
-65°F To +450°F



The LLHT Series features Kulite's Patented Leadless Technology and demonstrates Kulite's ability to provide pressure transducers suited for adaptation into custom packages. These devices can be integrated into various test articles such as fan blades, engine nozzles of various types, etc. The features of these transducers include small foot print, high natural frequency, extreme resistance to vibration and shock, and wide temperature range.



|  |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| <b>INPUT</b><br>Pressure Range                                 | 0.35<br>*5  | 0.7<br>10                                    | 1.7<br>25                                    | 3.5<br>50                                    | 7<br>100                                     | 17<br>250                                    | 35 BAR<br>500 PSI                            |
| Operational Mode   | Absolute, Sealed Gage   |  |  |  |  |  |  |
| Over Pressure  | 2 Times Rated Pressure With No Change In Calibration  |  |  |  |  |  |  |
| Burst Pressure   | 3 Times Rated Pressure  |  |  |  |  |  |  |
| Pressure Media   | All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)   |  |  |  |  |  |  |
| Rated Electrical Excitation                                    | 10 VDC/AC   |  |  |  |  |  |  |
| Maximum Electrical Excitation                                  | 15 VDC/AC   |  |  |  |  |  |  |
| Input Impedance  | 1000 Ohms (Min.)  |  |  |  |  |  |  |
| <b>OUTPUT</b><br>Output Impedance                              | 1000 Ohms (Nom.)  |  |  |  |  |  |  |
| Full Scale Output (FSO)  | 75 mV (Nom.)  |  |  |  |  |  | 100 mV (Nom.)                                |
| Residual Unbalance   | ± 5 mV (Typ.)   |  |  |  |  |  |  |
| Combined Non-Linearity, Hysteresis and Repeatability           | ± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)   |  |  |  |  |  |  |
| Resolution   | Infinitesimal   |  |  |  |  |  |  |
| Natural Frequency (KHz) (Typ.)                                 | 150   | 175  | 240  | 300  | 380  | 550  | 700  |
| Acceleration Sensitivity % FS/g<br>Perpendicular<br>Transverse | 1.5x10 <sup>-3</sup><br>2.2x10 <sup>-4</sup>  | 1.0x10 <sup>-3</sup><br>1.4x10 <sup>-4</sup> | 5.0x10 <sup>-4</sup><br>6.0x10 <sup>-5</sup> | 3.0x10 <sup>-4</sup><br>4.0x10 <sup>-5</sup> | 1.5x10 <sup>-4</sup><br>2.0x10 <sup>-5</sup> | 1.0x10 <sup>-4</sup><br>9.0x10 <sup>-6</sup> | 6.0x10 <sup>-5</sup><br>6.0x10 <sup>-6</sup> |
| Insulation Resistance  | 100 Megohm Min. @ 50 VDC  |  |  |  |  |  |  |
| <b>ENVIRONMENTAL</b><br>Operating Temperature Range            | -65°F to +450°F (-55°C to +235°C)   |  |  |  |  |  |  |
| Compensated Temperature Range                                  | 80°F to +450°F (25°C to +235°C)   |  |  |  |  |  |  |
| Thermal Zero Shift   | ± 1% FS/100°F (Typ.)  |  |  |  |  |  |  |
| Thermal Sensitivity Shift                                      | ± 1% /100°F (Typ.)  |  |  |  |  |  |  |
| Steady Acceleration  | 30,000g. (Max.)   |  |  |  |  |  |  |
| Linear Vibration   | 10-2,000 Hz Sine, 100g. (Max.)  |  |  |  |  |  |  |
| <b>PHYSICAL</b><br>Electrical Connection                       | 4 - 36 AWG Leads 36" Long   |  |  |  |  |  |  |
| Weight   | .2 Gram (Nom.) Excluding Module and Leads   |  |  |  |  |  |  |
| Pressure Sensing Principle                                     | Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology |  |  |  |  |  |  |

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Continuous development and refinement of our products may result in specification changes without notice, adding or deleting options.