

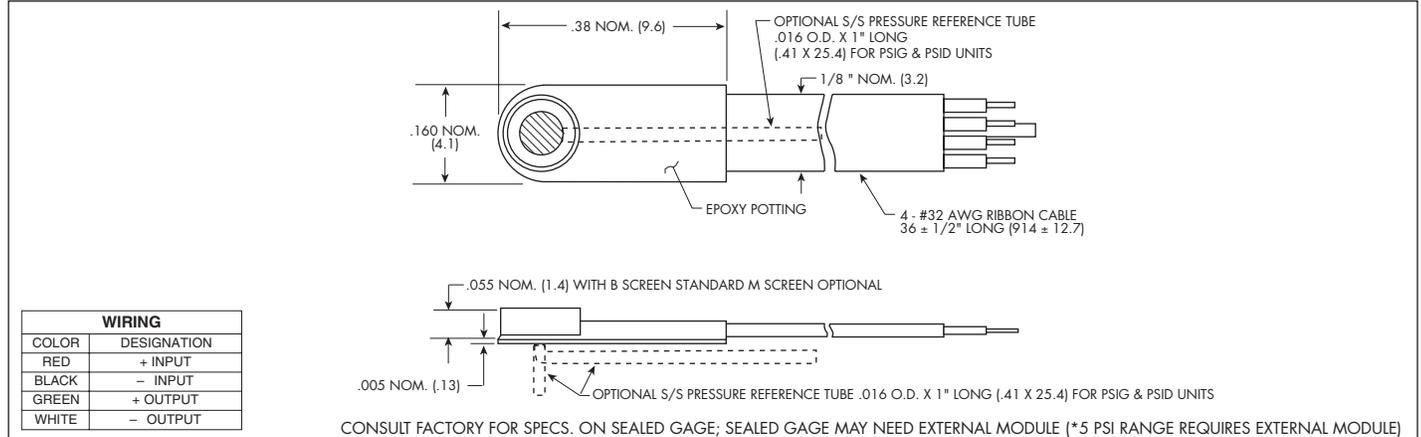


THIN LINE IS® PRESSURE TRANSDUCER

LL-080 SERIES LL-125 SERIES

- Patented Leadless Technology VIS®
- High Natural Frequency
- Ideal For Flight Test & Wind Tunnel Applications
- Excellent Stability

The LL 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.



| | | | | | | | |
|--|---|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|
| INPUT Pressure Range | 0.35 *5 | 0.7 10 | 1.7 25 | 3.5 50 | 7 100 | 17 250 | 35 BAR 500 PSI |
| Operational Mode | Absolute, Gage, Sealed Gage, Differential | | | | | 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.) | | | | | | |
| OUTPUT Output Impedance | 1000 Ohms (Nom.) | | | | | | |
| Full Scale Output (FSO) | 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 Perpendicular | 1.5x10 ⁻³ | 1.0x10 ⁻³ | 5.0x10 ⁻⁴ | 3.0x10 ⁻⁴ | 1.5x10 ⁻⁴ | 1.0x10 ⁻⁴ | 6.0x10 ⁻⁵ |
| Transverse | 2.2x10 ⁻⁴ | 1.4x10 ⁻⁴ | 6.0x10 ⁻⁵ | 4.0x10 ⁻⁵ | 2.0x10 ⁻⁵ | 9.0x10 ⁻⁶ | 6.0x10 ⁻⁶ |
| Insulation Resistance | 100 Megohm Min. @ 50 VDC | | | | | | |
| ENVIRONMENTAL Operating Temperature Range | -65°F to +250°F (-55°C to +120°C) | | | | | | |
| Compensated Temperature Range | +80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request | | | | | | |
| 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.) | | | | | | |
| PHYSICAL Electrical Connection | 4 Conductor 32 AWG Ribbon Cable 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 - all dimensions nominal. (E)

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