

Unsteady Piezoresistive Pressure Transducer Specifications

What We Need

30 Kulite Part # LQ-12C-062-5D: Pressure Transducers or EQUAL

Detailed Specifications

- Pressure range: ± 5 psid
- Ground isolated
- In-line amplification and temperature compensation
- Combined non-linearity, repeatability, pressure hysteresis: 0.5 %FSO RSS max
- Geometric requirements: "flat pack" design 0.062" wide, 0.30" deep
- Screen with single, centered 0.040" hole
- 0.016" diameter vent tube, at least 0.5" long with 1.0" long 0.040" dia. tube brazed on
- Temperature compensation, providing stability from 50 to 150° F
- Thermal zero shift: $\pm 1\%$ FSO/100° F
- Thermal sensitivity shift: $\pm 1\%$ /100° F
- Resonance frequency of isolated sensing diaphragm at least 150 kHz
- Acceleration sensitivity, %FS/g perpendicular: 1.5×10^{-3}
- Burst pressure: 3X rated pressure
- Electrical
 - Configuration: fully active four-arm Wheatstone bridge dielectrically isolated
 - Polarity: Positive output for increasing pressure into port (diaphragm side)
 - Separate fifth wire lead for shield
 - Cable, integral: four conductor plus shield, No. 38 AWG insulated leads, 48" between sensor and temperature compensator (TC), 8" between TC and amplifier, followed by 48" of cable length
- Voltage/pressure characteristics:
 - 0.5V \pm 75 mV @ -5 psi
 - 3.25V \pm 75 mV @ 0 psi
 - 6V \pm 75 mV @ +5 psi