The XT-140 Series uses a standard miniature silicon diaphragm to obtain extremely high natural frequencies in the smallest thread mount available.

Kulite recommends the KSC-2 signal conditioner to maximize the measurement capability of the XT-140 transducer.

### Pressure Range
- **Absolute, Gage, Differential**
- **Absolute, Gage, Sealed Gage, Differential**

### Over Pressure
- 2 Times Rated Pressure

### Burst Pressure
- 3 Times Rated Pressure

### Pressure Media
- All Nonconductive, Noncorrosive Liquids or Gases (All Media May Not Be Suitable With O-Ring Supplied)

### Operational Mode
- Absolute, Gage, Differential
- Absolute, Gage, Sealed Gage, Differential

### Rated Electrical Excitation
- 10 VDC/AC

### Maximum Electrical Excitation
- 12 VDC/AC

### Input Impedance
- 1000 Ohms (Min.)

### Output Impedance
- 1000 Ohms (Nom.)

### Combined Non-Linearity, Hysteresis and Repeatability
- ± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)

### Resolution
- Infinitesimal

### Natural Frequency of Sensor Without Screen (KHz) (Typ.)
- 150

### Acceleration Sensitivity % FS/g Perpendicular
- 1.5x10^{-3}
- 1.0x10^{-3}
- 6.5x10^{-4}
- 5.0x10^{-4}

### Insulation Resistance
- 100 Megohm Min. @ 50 VDC

### Operating Temperature Range
- -65°F to +350°F (-55°C to +175°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
- 10,000 g. (Max.)

### Linear Vibration
- 10-2,000 Hz Sine, 100g. (Max.)

### Electrical Connection
- 4 Conductor 32 AWG Cable 36” Long

### Weight
- 3 Grams (Nom.) Excluding Cable

### Pressure Sensing Principle
- Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon

### Mounting Torque
- 15 Inch-Pounds (Max.) 1.7 Nm

### P/N
- "T" 140
- 140M 3.5 x 0.6 - 6g

### Note:
- Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (J)
- 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.