



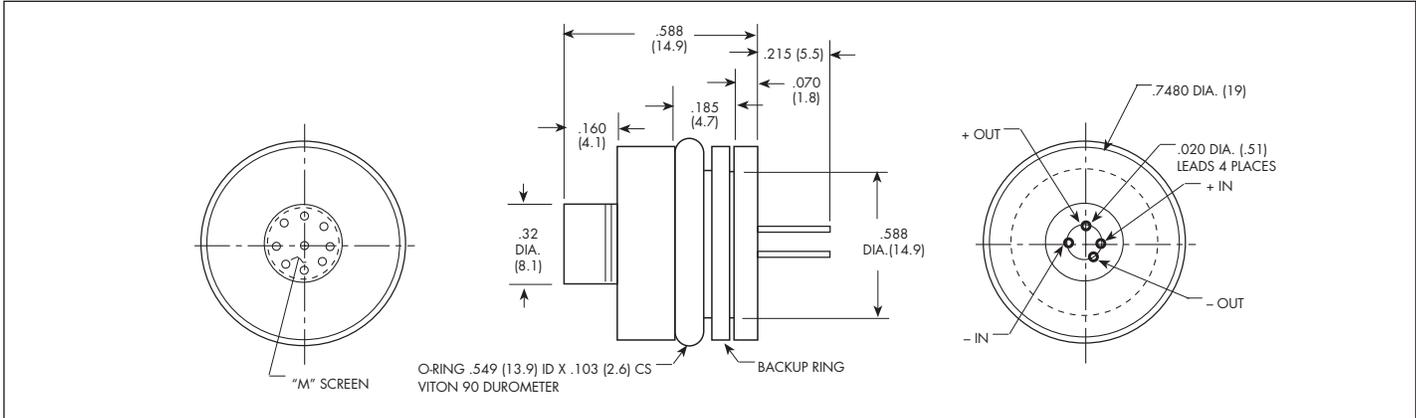
## MINIATURE STATE OF THE ART DOWNHOLE IS® PRESSURE TRANSDUCER USING KULITE PROPRIETARY PIEZORESISTIVE TECHNOLOGY

### IPT-25-750

- 19mm Maximum Diameter
- Corrosion Resistant
- Stainless Steel or Inconel Housing
- Pressure Range up to 10,000 PSI
- O-Ring Seal
- Intrinsically Safe Applications Available (i.e. IS-IPT-25-750)



A **Low Cost** OEM component for downhole tools. Each transducer is supplied with a table of output sensitivity and bridge resistance values at various temperatures. When used with a fixed series resistor, these data provide the tool engineer with a low cost pressure sensor with a total error band of 0.25% (typical) over the entire operating temperature range of the tool.



INPUT	35 500	70 1000	170 2500	350 5000	700 BAR 10000 PSI
Pressure Range					
Operational Mode	Absolute				
Over Pressure	30,000 PSI (2100 BAR)				
Burst Pressure	30,000 PSI (2100 BAR)				
Pressure Media	Any Media Compatible With Inconel				
Rated Electrical Excitation	3-5 V				
Bridge Resistance	1500 Ohms (Nom.)				
<b>OUTPUT</b>					
Output Impedance	1500 Ohms (Nom.)				
Full Scale Output (FSO)	150 mV (Nom.) @ 5V Input				
Combined Non-Linearity, Hysteresis and Repeatability	± 0.25% FSO BFSL (32°F to +350°F) (0°C to +175°C)				
Resolution	Infinitesimal				
Natural Frequency (KHz) (Typ.)	1000 KHz				
<b>ENVIRONMENTAL</b>					
Operating Temperature Range	-40°F to +392°F (-40°C to +200°C)				
Compensated Temperature Range	Uncompensated (See Product Description Above)				
Steady Acceleration and Linear Vibration	250g half Sine Wave 2ms				
<b>PHYSICAL</b>					
Electrical Connection	Four Pin or Wire Termination				
Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon				

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. (F)