

XTL-3-375 (M) SERIES

- Robust Construction
- · Automotive and Flight Test Applications
- Patented Leadless Technology VIS®

The XTL-3-375 series is a non-amplified differential transducer. The Kulite patented leadless sensing element is extremely accurate even at low pressures making the XTL-3-375 ideal for low pressure differential measurements in automotive and flight test applications.

Part performance not guaranteed if used in water.

Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the XTL-3-375 transducer.



P/N "T" 375 375 376-24 UNF-3A 375M M 10 x 1 SILICONE O-RING 301 ID X .064 CS (7.6 ID X 1.62 CS) (7.6 ID X 1.62 CS) (7.6 ID X 1.62 CS)												
	RED + INPUT BLACK - INPUT GREEN + OUTPUT WHITE - OUTPUT 4 COND. #26 AWG. SHIELDED CABLE 36" (914) LONG											
	Pressure Range	0.7	1.0 15	1.7 25	3.5 50	5 75	7 100	10 150	14 200	17 250	21 BAR 300 PSI	
	Operational Mode	Differential										
	Over Pressure	2 Times Rated Pressure										
5	Burst Pressure	3 Times Rated Pressure										
INPUT	Line Pressure	10 Times Rated Pressure (Max.)										
	Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)										
	Rated Electrical Excitation	10 VDC/AC										
	Maximum Electrical Excitation	12 VDC/AC										
	Input Impedance	1000 Ohms (Min.)										
TUc	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.)										
OUTPUT	Resolution	Infinitesimal										
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	175	200	240	300	340	380	440	500	550	575	
	Acceleration Sensitivity % FS/g Perpendicular	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻³	3.0x10 ⁻³	2.3x10 ⁻⁴	1.5x10 ⁻⁴	6.4x10 ⁻⁴	1.1x10 ⁻⁴	1.0x10 ⁻⁴	4.0x10 ⁻⁵	
\perp	Insulation Resistance						Vin. @ 50 VE					
ENVIRONMENTAL	Operating Temperature Range	-65°F to +350°F (-55°C to +175°C) Higher Temperature Ranges Available - Please Consult Factory										
	Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)										
	Thermal Zero Shift						00°F (Typ.)	-				
8	Thermal Sensitivity Shift						0°F (Typ.)					
N	Linear Vibration						e 10 to 2000					
PHYSICAL E	Mechanical Shock		20g Half Sine Wave 11 msec. Duration									
	Electrical Connection	4 Conductor 26 AWG Shielded Cable 36" Long										
	Weight	20 Grams (Max.) Excluding Cable										
F	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology										
L	Mounting Torque	80 Inch-Pounds (Max.) 9 Nm										

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