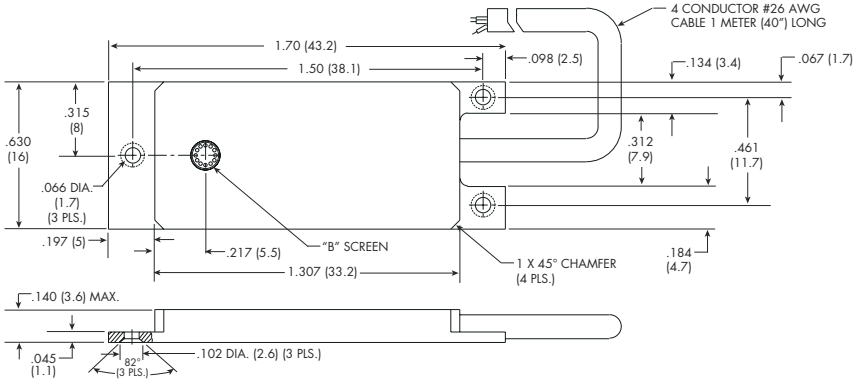
MINIATURE 5 VDC OUTPUT DIGITALLY CORRECTED FLATPACK PRESSURE TRANSDUCER

LLE-5DC-500 SERIES

- Wind Tunnel, Flight Test
- 5 VDC Output
- Moisture Protected
- High Accuracy Digital Correction
- Patented Leadless Technology **VIS**®

The LLE-5DC-500 series transducers are an excellent solution for Wind Tunnel and Flight Test pressure measurement applications. Their light weight and flat packaging makes them especially suitable for direct adherence to test parts where other means of pressure installation are undesirable or not possible. These transducers incorporate the latest Kulite patented technologies in pressure sensor development. The Digitally Corrected output of these transducers enables them to have accuracies down to .25% FS over a fairly wide temperature range.



WIRING	
COLOR	DESIGNATION
RED	+ INPUT
BLACK	RTN
GREEN	+ OUTPUT
WHITE	FACTORY USE ONLY

INPUT	Pressure Range	1.7 3.5 7 17 35 BAR 25 50 100 250 500 PSI
	Operational Mode	Absolute, Sealed Gage
	Over Pressure	2 Times Rated Pressure Range
	Burst Pressure	3 Times Rated Pressure Range
	Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory
	Rated Electrical Excitation	12 ± 4 VDC or 28 ± 4 VDC
	Maximum Electrical Current	25 mA
OUTPUT	Output Impedance	200 Ohms (Typ.)
	Full Scale Output (FSO)	5 V
	Residual Unbalance	0.5 VDC
	Total Error Band	± 0.25% (Typ.) *(End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability And All Thermal Effects Included)*
	Resolution	Infinitesimal
	Frequency Response	DC to 2500 Hz
	Acceleration Sensitivity % FS/g Perpendicular	$5.0x10^{-4}$ $3.0x10^{-4}$ $1.5x10^{-4}$ $1.0x10^{-4}$ $6.0x10^{-5}$
	Insulation Resistance	100 Megohm Min. @ 50 VDC
ENVIRONMENTAL	Operating Temperature Range	-40°F to +280°F (-40°C to +140°C)
	Compensated Temperature Range	-40°F to +250°F (-40°C to +120°C) Other Ranges Quoted on Request
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)
	Mechanical Shock	20g half Sine Wave 11 msec. Duration
PHYSICAL	Electrical Connection	4 Conductor 26 AWG Cable 1 Meter (40") Long
	Weight	4.5 Grams (Nom.) Excluding Cable
	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. All dimensions nominal. (D) Continuous development and refinement of our products may result in specification changes without notice.
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.