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msisensors
IC SENSORS DIVISION

Mdl: 1510-1-N

PRELIMINARY

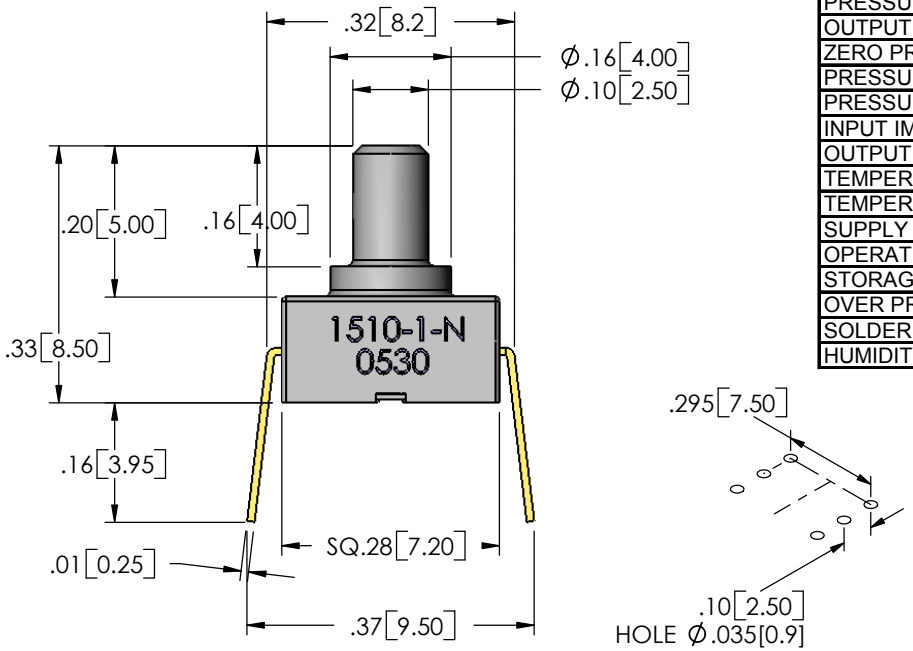
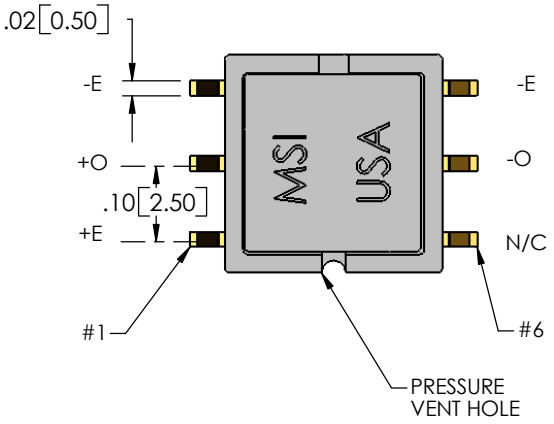


FIGURE # 1

PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
PRESSURE		300		mmHg	
OUTPUT SPAN	21	43.5	66	mV	1
ZERO PRESSURE OUTPUT	-15		15	mV	1
PRESSURE NON-LINEARITY		±0.3		%FS	1
PRESSURE HYSTERESIS		±0.7		%FS	1
INPUT IMPEDANCE	2700	3300	3900	Ohm	
OUTPUT IMPEDANCE				Ohm	
TEMPERATURE ERROR-SPAN (5 to 45C)	-1.3		1.3	%FS	2
TEMPERATURE ERROR-ZERO (5 to 45C)	-10		10	%FS	2
SUPPLY CURRENT		1.5	3	mA	
OPERATING TEMPERATURE	-5		50	C	3
STORAGE TEMPERATURE	-20		70	C	
OVER PRESSURE			2X		
SOLDERING TEMPERATURE (SOLD.IRON)			300	C	7
HUMIDITY (NON CONDENSING)	25		85	%RH	9



1 REFERENCE CONDITIONS: TEMP 25C, 1.5mA SUPPLY
2 TEMP RANGE 5C TO 45C WITH RESPECT TO 25C
3 MAX OVERPRESSURE 2X RATED PRESSURE.
4 PRESSURE CONNECTION:
  a) TUBING
5 MEDIA COMPATIBILITY:
  a) NON-CORROSIVE GASES.
6 MOUNTING:
  a) THIS PRODUCT IS DESIGNED TO BE MOUNTED ON A PCB IN HOLE'S DIA .035 in (0.9mm). SEE FIG. # 1 HOWEVER, EXCESSIVE BENDING OF LEADS WOULD RESULT IN SENSOR OUTPUT.
  b) AFTER MOUNTING, PRECAUTION MUST BE TAKEN DURING TUBE INSTALLATION. EXCESSIVE FORCE MIGHT BEND THE PINS.
7 SOLDERING:
  a) HAND SOLDERING, SOLDER IRON TEMP:260C TO 300C FOR 5 sec MAX
  b) WAVE SOLDERING @ 240C PICK TEMP. FOR 5 sec. (PLUG PRESSURE PORTS BEFORE SOLDERING INSURING THAT FLUX FUMES ARE NOT TRAPPED INSIDE THE SENSOR.
  c) NO CLEAN SOLDER IS RECOMMENDED.
8 CLEANING:
  a) NO CLEANING SOLUTIONS ARE ALLOWED INSIDE PLASTIC LIDS.
  b) NO CLEANING WITH WATER OR ULTRASONIC CLEANING.
9 DROP OF GEL IS ADDED ON THE DIE FOR MILD HUMIDITY APPLICATIONS.
10 APPLICATIONS: HEMODYNAMETER, GAS LEAK DETECTOR, VACUUM CLEANER, etc.
11 MODEL CODE: 1510-X-Y
  X-OPTIONS:
    #1 - LEAD PINS ARE OPPOSITE PRESSURE INLET DIRECTION
    #2- LEAD PINS ARE SAME AS PRESSURE INLET DIRECTION
  Y-OPTIONS:
    N- NO GEL PROTECTION ON THE DIE.
    F- GEL FILL PROTECTION ON THE DIE.

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