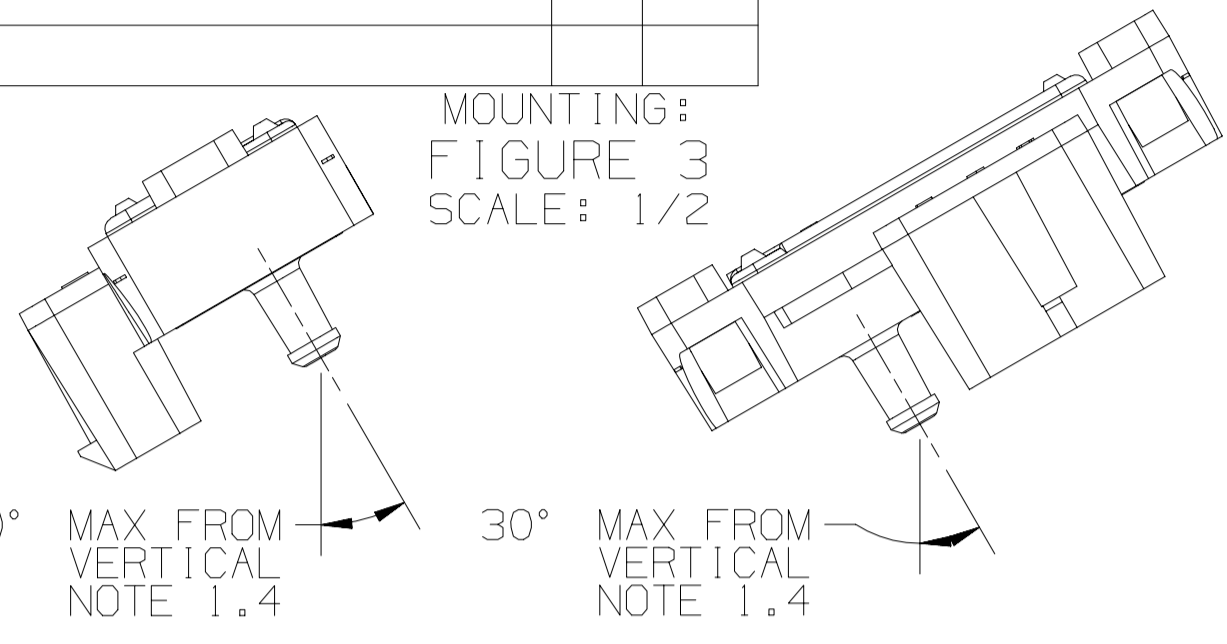
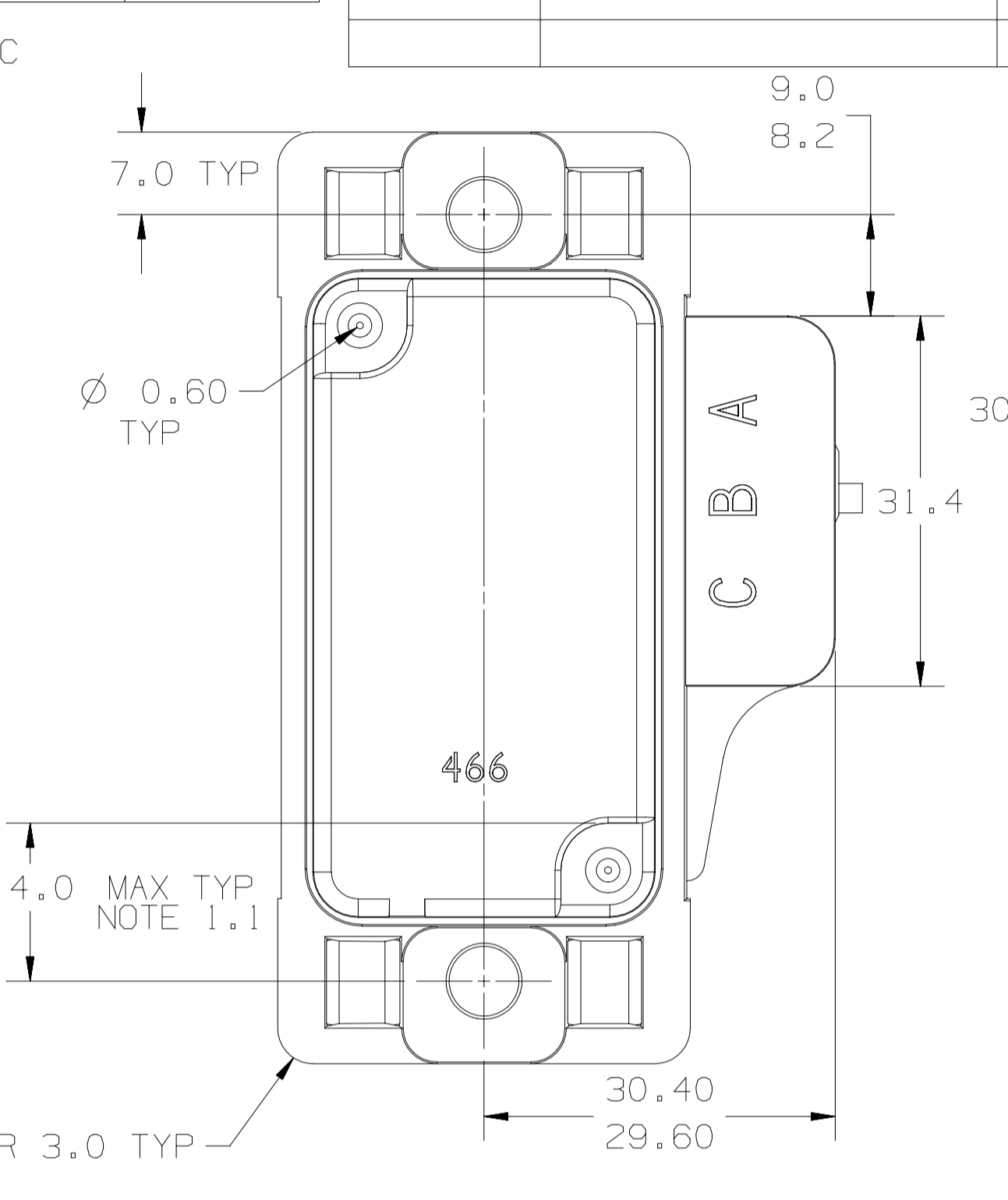
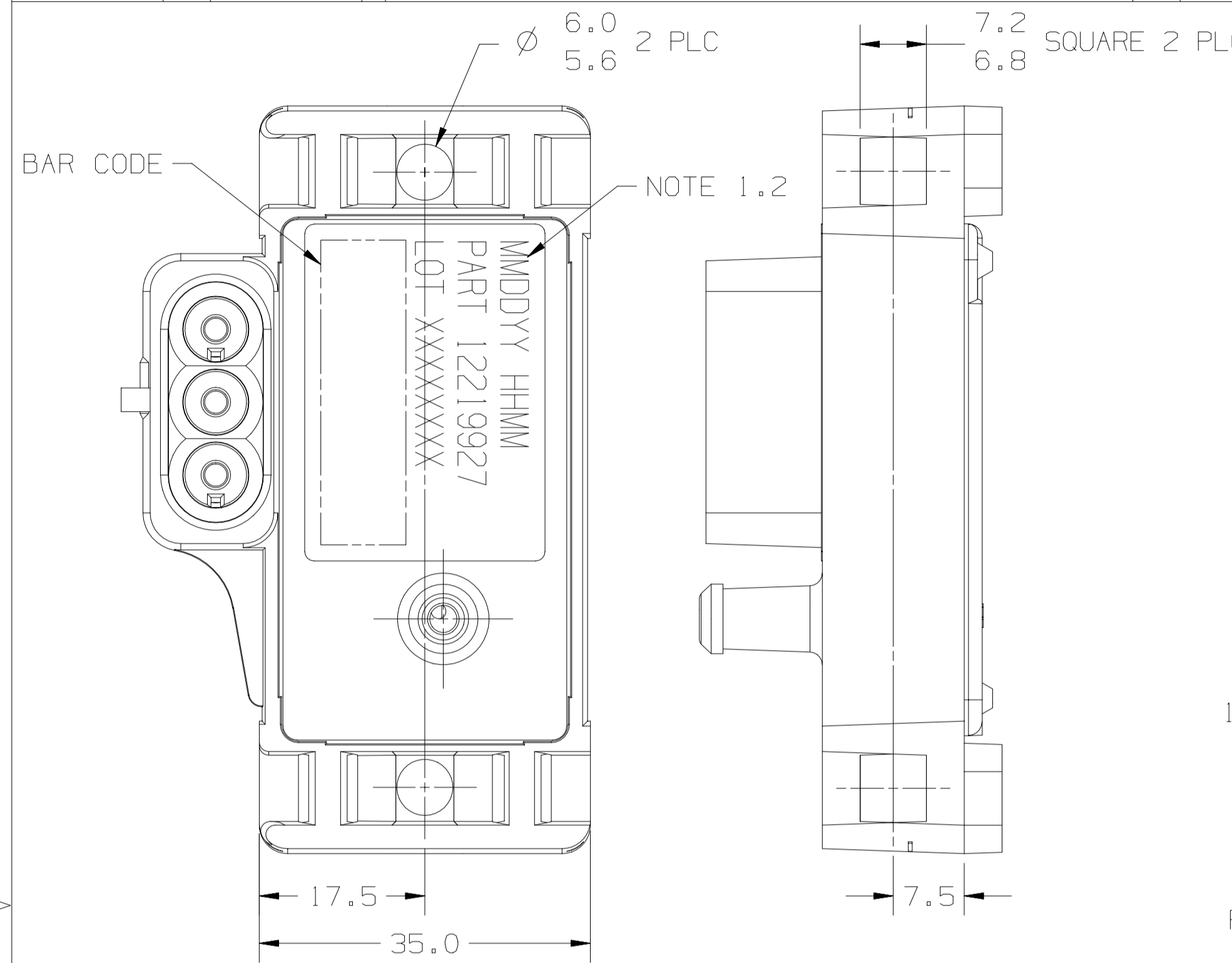


SUPPLIER PART/ASM NO.	ITEM NO.	SATURN PART/ASM NO.	IND	PART NAME	QTY	SHOWN ON DRWG

KEY PRODUCT CHARACTERISTICS			
NO & TYPE	DESCRIPTION	RATIONALE	PTS ZONE

DE REV	DE APPR	DATE	DL	CL	REVISION RECORD	AUTH.	DR	CK
A	164181	18A02	-	000	RELEASED-PRODUCTION PER CN20017			



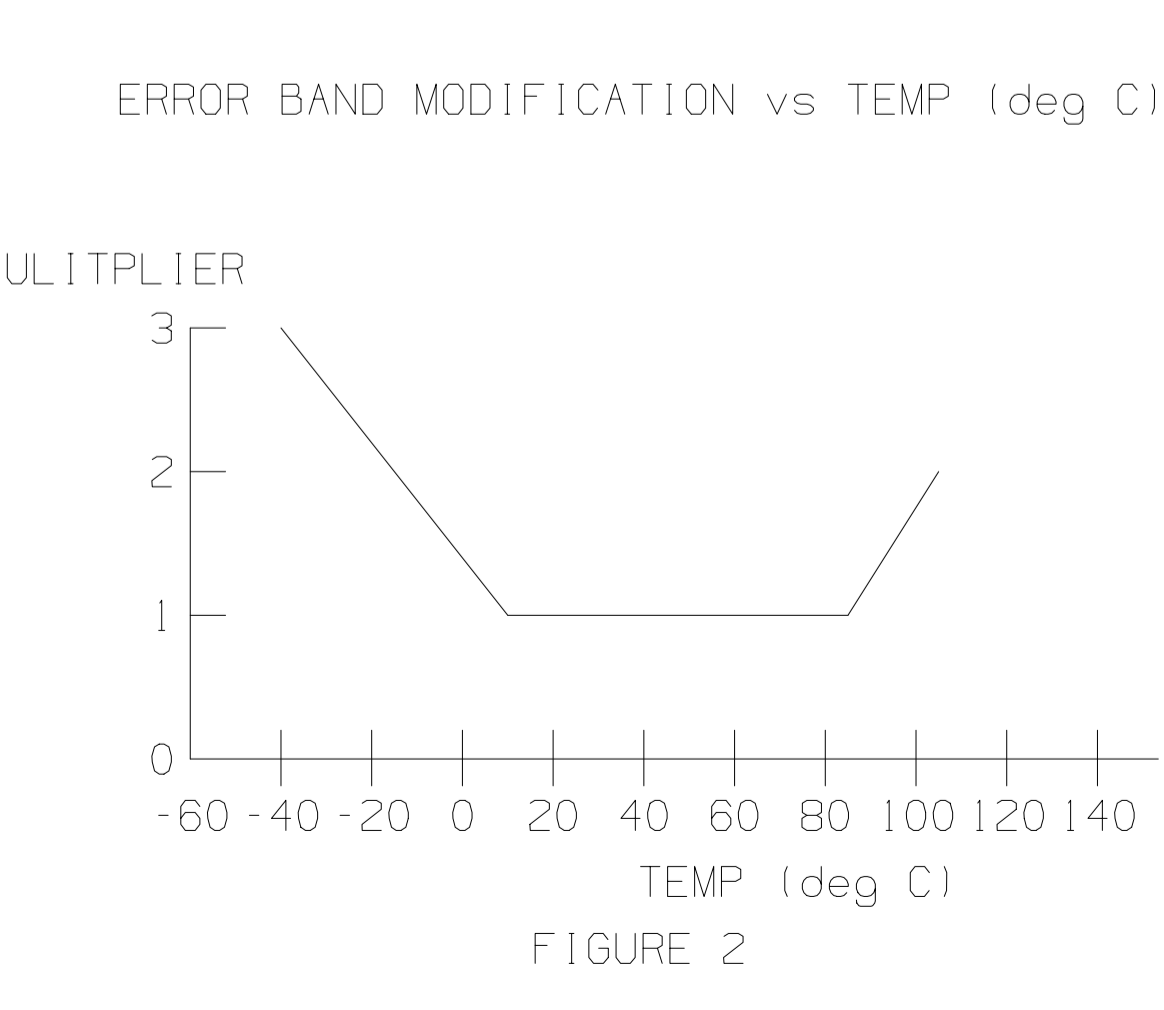
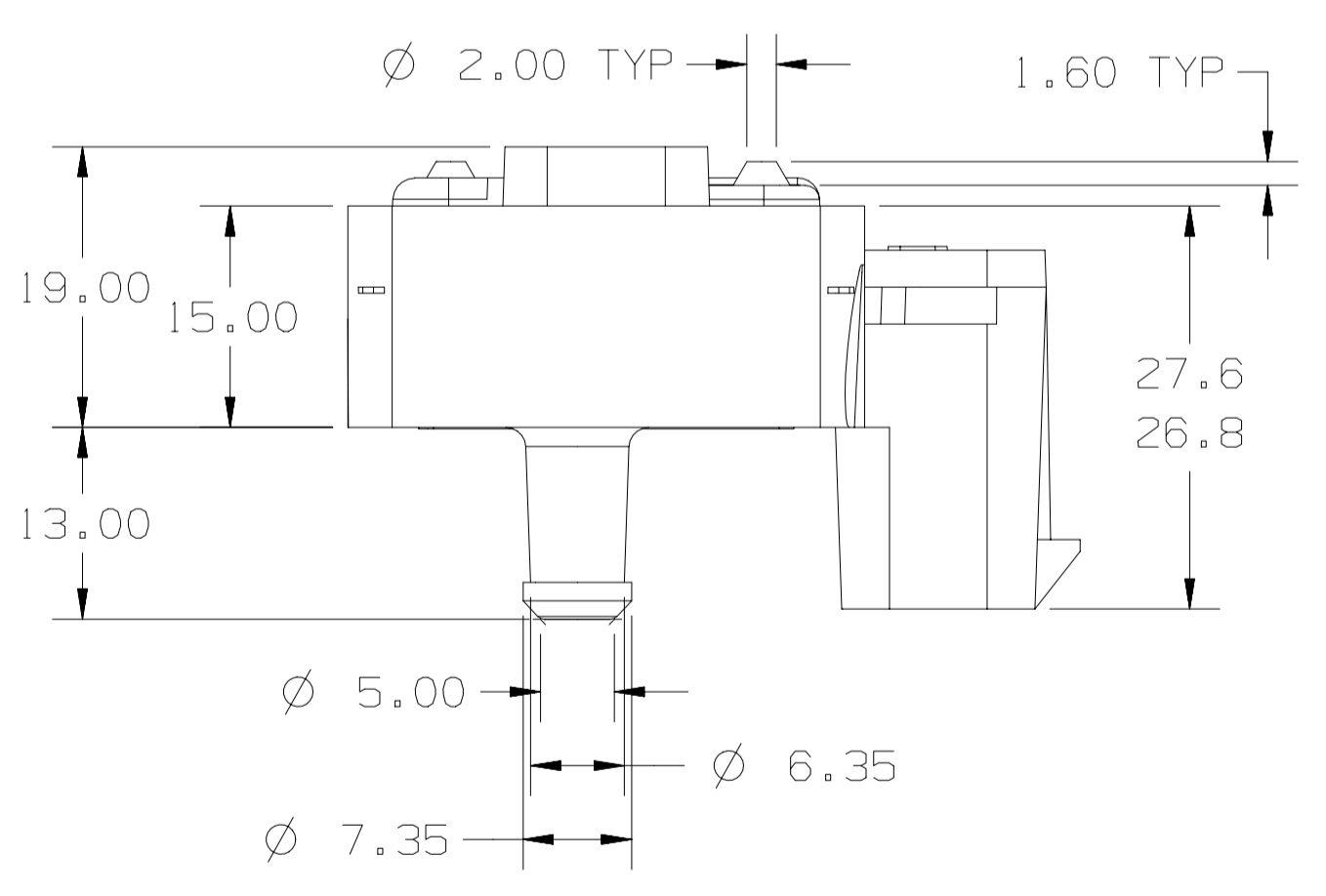
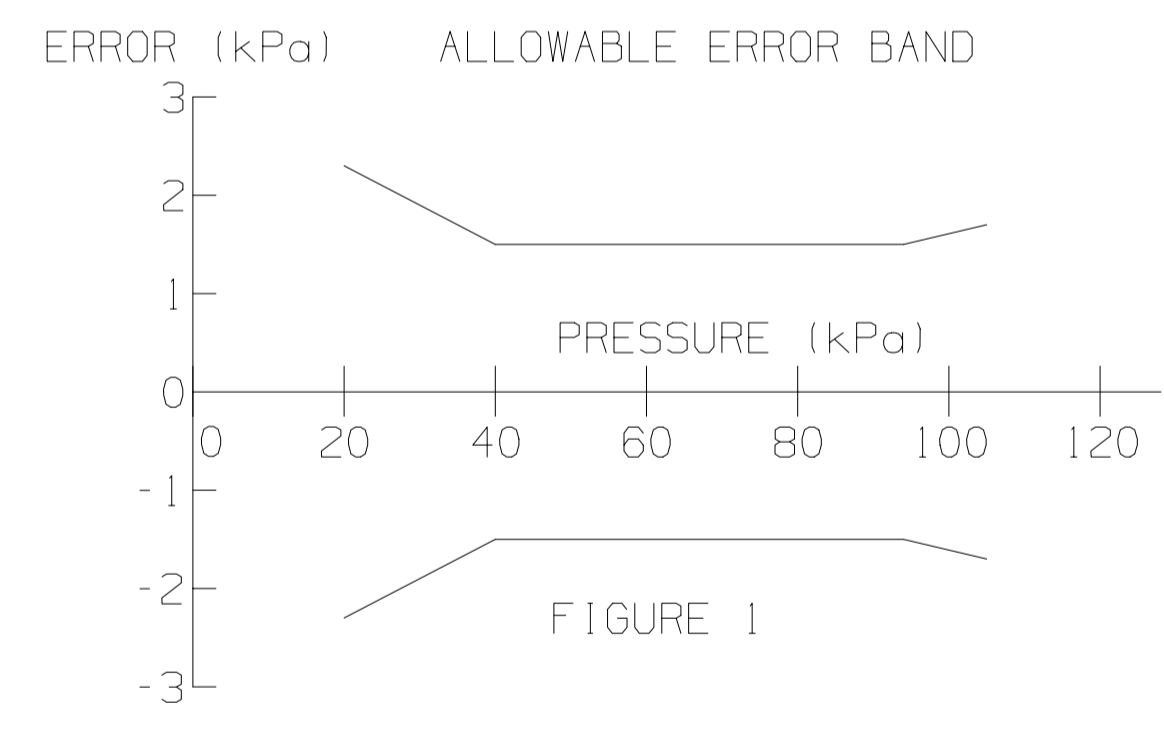
- ORIENTATION OF "466" IS OPTIONAL.
 - VENT HOLES ARE TO BE WITHIN AREAS SHOWN.
 - EXAMPLE BAR CODE LABEL ATTACHED IN AREA SHOWN. LABEL WILL INCLUDE PART NUMBER AND TRACEABILITY INFORMATION.
 - MUST MATE WITH PACKARD CONNECTOR 12020403 REV A 06/10/91.
 - RECOMMENDED MOUNTING PROCEDURE FOR THE PRESSURE SENSOR IS TO HAVE THE PORT POINTING DOWN WITHIN 30° OF VERTICAL. THIS WILL ENSURE THAT ANY CONDENSATE OR LIQUID IN THE LINE WILL DRAIN AWAY FROM THE SENSOR CELL. THE PRESSURE SENSOR SHOULD BE MOUNTED HIGHER THAN THE VACUUM SOURCE TO ASSIST IN DRAINING THE LINE. MAXIMUM MOUNTING TORQUE 3.5Nm.
- PERFORMANCE SPECIFICATIONS
 - SEE SATURN LEVEL III SPECIFICATION 020103AC 4/30/93 FOR ADDITIONAL INFORMATION.
 - TRANSFER CHARACTERISTICS

THE ELECTRICAL OUTPUT OF THE SENSOR SHALL BE DETERMINED BY THE FOLLOWING EXPRESSION. THE AC LOAD IMPEDANCE SHALL BE NO LESS THAN 10K OHM AT 1kHz, AND THE DC LOAD IMPEDANCE SHALL BE 51K OHM FROM E_o TO SIGNAL LOW.

$$E_o = E_r(K_2P_i + K_1)$$

WHERE E_r = VOLATGE REFERENCE
 E_o = OUTPUT VOLTAGE
 K_1 = -0.10941 (OFFSET)
 K_2 = 0.01059 (SLOPE)
 P_i = PRESSURE INPUT KILOPASCALS
 - SENSOR ERROR

CRITICAL OPERATION REGION - THE MAXIMUM ACCEPTABLE ERROR IN SENSOR OUTPUT OVER A +10°C TO 85°C TEMPERATURE RANGE SHALL BE AS ILLUSTRATED IN FIGURE 1. THE ERROR LIMITS ARE INTENDED TO BE MAXIMUM ALLOWABLE EXCURSIONS ENCOMPASSING ALL RELATED ERROR CONTRIBUTING FACTORS SUCH AS STABILITY, REPEATABILITY, HYSTERESIS AND INTERCHANGEABILITY.



DATUM	DESCRIPTION OF DATUM FEATURE	LOCATING DIRECTION	ZONE
-A-			
-B-			
-C-			
-D-			

DATUM	DESCRIPTION OF DATUM FEATURE	LOCATING DIRECTION	ZONE
-A-			
-B-			
-C-			
-D-			

FOR UNDIMENSIONED PART DEFINITION, SEE ASSOCIATED DATABANKED ELECTRONIC DATA.

ALL REVISIONS MADE TO THIS COMPONENT WHICH AFFECT PRODUCT FUNCTION OR PROCESS REQUIRE THE WRITTEN APPROVAL OF SATURN ENGINEERING PRIOR TO RELEASE.

GM	DO NOT SCALE UNLESS OTHERWISE SPECIFIED CHANGE RESTRICTED NO MANUAL CHANGES		CAD
GEOMETRIC TOLERANCE SPECIFICATION UNLESS OTHERWISE SPECIFIED		REFERENCE	DATE
PERFECT FORM REQUIRED FOR FEATURES OF SIZE AT MMC. TRUE POSITION TOLERANCES AND RELATED DATUMS APPLY AT CONDITION OF SIZE INDICATED IN FEATURE CONTROL FRAME. ALL OTHER GEOMETRIC TOLERANCES AND RELATED DATUMS APPLY RFS. SEPARATE TRUE POSITION CALLOUTS MAY BE GAGED SEPARATELY, REGARDLESS OF DATUM REFERENCE. SEE GM STANDARDS FOR INTERPRETATION.		12569241	DR DEREK A. DELRYMPLE 18A02 AP1 R.LONGSTREET 18A02 AP2 J.SCHNEIDER 18A02 AP3 AP4 AP5
ALL COMPONENTS AND MATERIALS MUST MEET THE RESTRICTED AND REPORTABLE CHEMICALS PER GM1000M	ANGLES 1 PLACE DECIMALS 2 PLACE DECIMALS	DRAWING NAME	
THIRD ANGLE PROJECTION	METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED	OUTLINE - P/SNSR	
FRAME NUMBER	SHEET NUMBER	DRAWING NUMBER	DWG STATUS
1 OF 1	1 OF 1	12219927	STG REL N/P 000