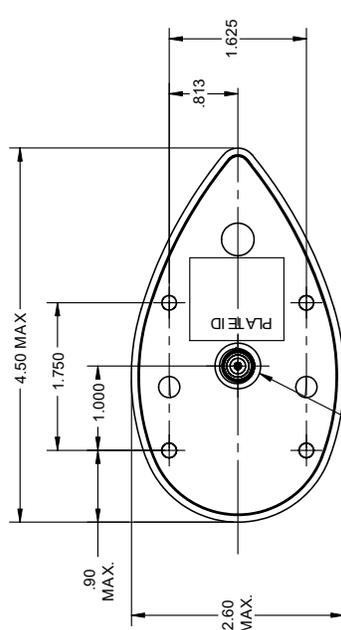
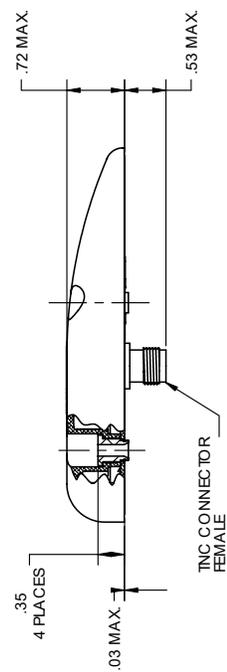
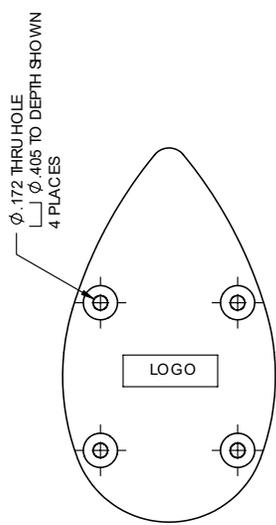


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**ANTENNA NOTES & SPECIFICATIONS**

- 1.0 XM SPECIFICATION
- 1.1 ACTIVE AND PASSIVE ANTENNA CHARACTERISTICS
- 1.2 FREQUENCY \_\_\_\_\_ 2332.5 TO 2345.0 MHz
- 1.3 VSWR \_\_\_\_\_ 1.5 : 1 MAX.  
RL \_\_\_\_\_ -13.98 dB
- 1.4 POLARIZATION \_\_\_\_\_ LEFT HAND CIRCULAR
- 1.5 RADIATION PATTERN \_\_\_\_\_ HEMISPHERICAL
- 1.6 IMPEDANCE \_\_\_\_\_ 50 OHMS OUTPUT (NOMINAL)
- 1.7 GAIN (MEASURED ON 4 CIRCULAR GROUND PLANE); \_\_\_\_\_ 4 dBiC ± 1 dB NOM. ZENITH
- 1.8 AMPLIFIER CHARACTERISTICS - ACTIVE ANTENNA
- 1.9 GAIN \_\_\_\_\_ 28 TO 30 dB
- 1.10 DC VOLTAGE \_\_\_\_\_ 4.0 VOLTS MIN. / 4.7 VOLTS TYP. / 5.5 VOLTS MAX.
- 1.11 DC CURRENT \_\_\_\_\_ 25 mA MIN. / 45 mA TYP. / 55 mA MAX.
- 1.12 NOISE FIGURE \_\_\_\_\_ 2.7 dB (MAX.)
- 1.13 OUT OF BAND ATTENUATION: 25 dB MIN. @ FC ± 230 MHz
- 2.0 ANTENNA WEIGHT \_\_\_\_\_ 4.2 Oz. MAX.
- 3.0 XM CONNECTOR \_\_\_\_\_ TNC FEMALE
- 4.0 RTCA DO-160D ENV. CAT.: [F2X]ACB[T(C)I]R[X]RFXSXZXXZ[U]U[M]XXE[Z]I[B]CA
- 5.0 A42099 INSTALLATION INSTRUCTIONS SUPPLIED WITH ANTENNA

**INSTALLATION DRAWING**

LTR	DESCRIPTION	DATE	APPROVAL
A	RELEASED DRAWING	MIN 07/24/06 DH 07/24/06	
B	REF ECN 07-35	MIN 02/27/07 AV 02/27/07	
C	REF ECN 08-065	MIN 12/10/08 DH 12/16/08	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS .XX ± .03 .XXX ± .010 FRACTIONS ± 1/16 ANGLES PER ANSI-B46.1 MACHINE FINISH 125 ✓ PER ANSI-B46.1 REMOVE BURRS AND SHARP EDGES 015 MAX MEET DIMENSIONS BEFORE PLATING DIMENSIONS ARE PER ASME Y14.5M		CONTRACT NO.	
APPROVALS		DATE	
DRAWN H. NGUYEN	CHECK R. GOMEZ	07/24/06	
ENGR D. HOLLOWAY	MFG M. EVANSON	07/24/06	
QC S. ADAMS		07/24/06	
MATERIAL:		CODE IDENT	DWG. NO.
DO NOT SCALE DRAWING		C 51351	CI 420-16
		SCALE: 1:1	CAD FILE: --

**Comant Industries, Inc.**  
**XM COMDAT®**  
**ANTENNA**

**ASSY DRAWING C42095**