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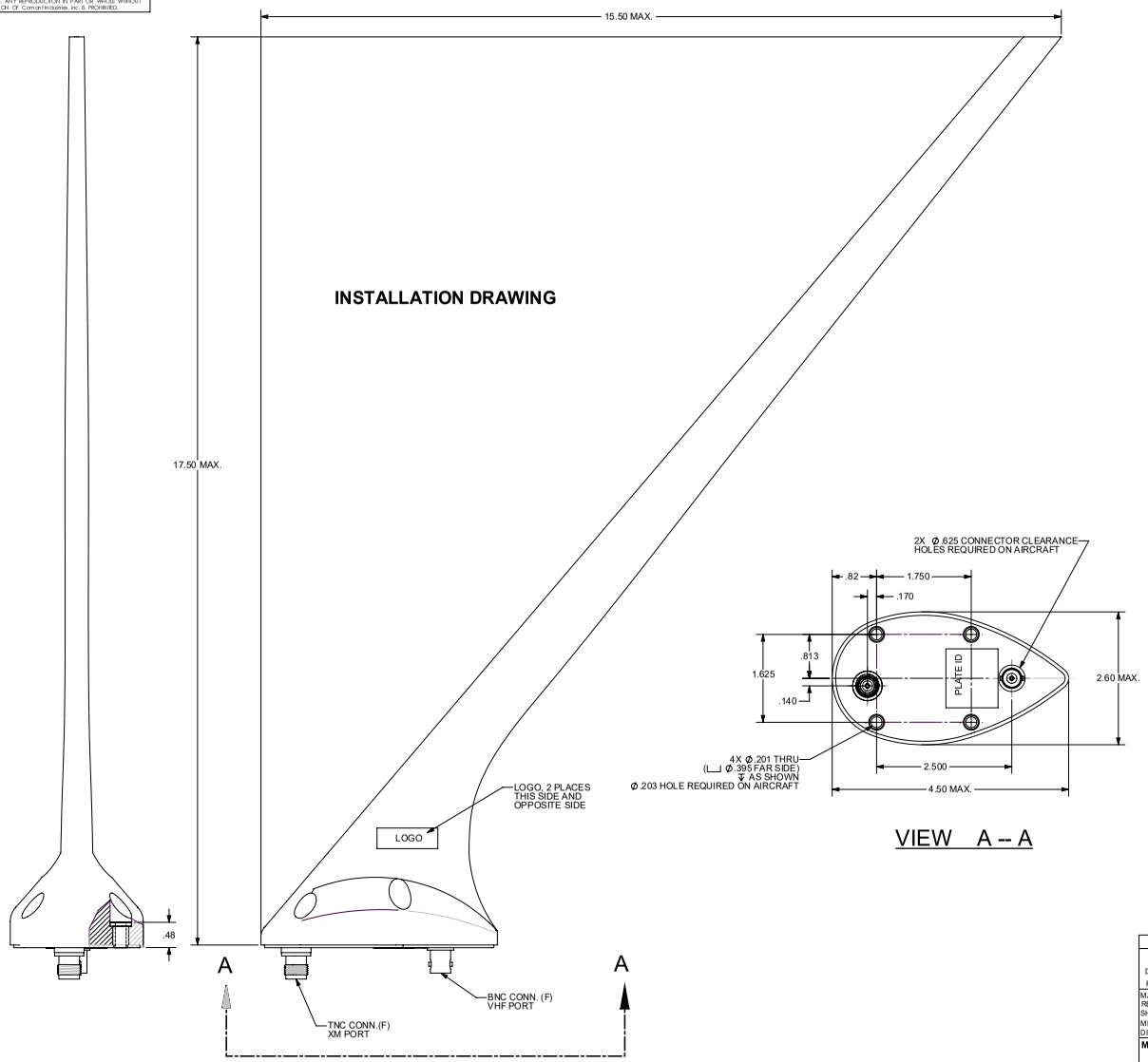
| REVISIONS | | | | |
|---|---|---|---|---|
| LTR | DESCRIPTION | | DATE | APPROVED |
| A | RELEASED DRAWING | JF | 04/18/05 | DH 04/15/05 |
| B | REF ECN 06-26 | HN | 03/24/06 | DH 03/24/06 |
| C | REF ECN 06-140 | AV | 1/17/07 | DH 1/17/07 |
| D | REF ECN 08-095 | MN | 12/05/08 | DH 12/05/08 |
| E | REF ECN 15-036 | MN | 06/04/15 | DH 06/08/15 |
| F | REF ECN 19-069 | RM | 8/22/19 | DH 8/26/19 |
| G | REF ECN 20-068 | RM | 9/30/20 | DH 10/20/20 |




NOTES:

1.0 VHF SPECIFICATION

1.1 RF CHARACTERISTICS: VHF COMM
1.2 FREQUENCY 118 - 137 MHz.
1.3 VSWR 2.5 : 1 MAX.
R/L -7.36 dB
1.4 POLARIZATION VERTICAL
1.5 RADIATION PATTERN OMNI DIRECTIONAL
1.6 POWER RATING 50 WATTS
1.7 IMPEDANCE 50 OHMS

2.0 XM SPECIFICATION

2.1 ACTIVE & PASSIVE ANTENNA CHARACTERISTICS
2.2 FREQUENCY 2332.5 TO 2345.0 MHz
2.3 VSWR 1.5 : 1 MAX.
R/L -13.98dB
2.4 POLARIZATION LEFT HAND CIRCULAR
2.5 RADIATION PATTERN HEMISPHERICAL
2.6 IMPEDANCE 50 OHMS OUTPUT (NOMINAL)
2.7 GAIN (MEASURED ON 4' CIRCULAR GROUND PLANE): 4 dBic +/- 1 dB NOM. ZENITH.

2.8 AMPLIFIER CHARACTERISTICS - ACTIVE ANTENNA
2.9 GAIN 25 +/- 2 dB
2.10 DC VOLTAGE 3.6 TO 24 VDC
2.11 DC CURRENT 35mA TO 55mA
2.12 NOISE FIGURE 2.7 dB (MAX.)
2.13 OUT OF BAND FILTER ATTENUATION: 25-dB MIN. @ FC +/- 230 MHz

3.0 WEIGHT: 0.7 LB MAX.
4.0 TSO: C169 (INCOMPLETE SYSTEM) RTCA DO-160D
ENV. CAT.: [F2X]ACB[S(L)U(F,F1)I(C,C1,R)]XRFDXSXXXXX[XX]X[XXXX]XCX
5.0 SHELL CONSTRUCTION MATERIAL: 40% GLASS FILLED NYLON.
6.0 FINISH: GLOSSY WHITE POLYURETHANE PAINT.
7.0 MOUNTING SURFACE, CONNECTORS AND MOUNTING HOLES ARE FREE OF PAINT.
8.0 U.S. PATENT NO. 5,610,620.
9.0 A248125 INSTALLATION INSTRUCTION SUPPLIED WITH ANTENNA.

ASSY DWG NO. D248124

| | | | |
|---|---|---|---|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS .XX ± .03 .XXX ± .010 FRACTIONS ± 1/16 ANGLES ± 1° MACHINE FINISH 125√ PER ANSI- B46.1 REMOVE BURRS AND SHARP EDGES .015 MAX. MEET DIMENSIONS BEFORE PLATING DIMENSIONS ARE PER ASME Y 14.5M | CONTRACT NO. | | Comant Industries, inc. |
| | APPROVALS | DATE | TITLE XM / VHF COMDAT ® ANTENNA |
| | DRAWN J FRANKS | 04/14/05 | |
| | CHECK R GOMEZ | 04/15/05 | |
| | ENGR D HOLLOWAY | 04/15/05 | |
| MATERIAL : | APPD S ADAMS | 04/15/05 | DWG SIZE D · CODE IDENT 51351 · DWG. NO. CI 2480-216 · REV. G |
| DO NOT SCALE DRAWING | QC D HOLLOWAY | 04/15/05 | SCALE: FULL · CAD FILE: -- · SHEET 1 OF 1 |



Warning: Drawing for reference only and may be outdated, contact support for current revision.