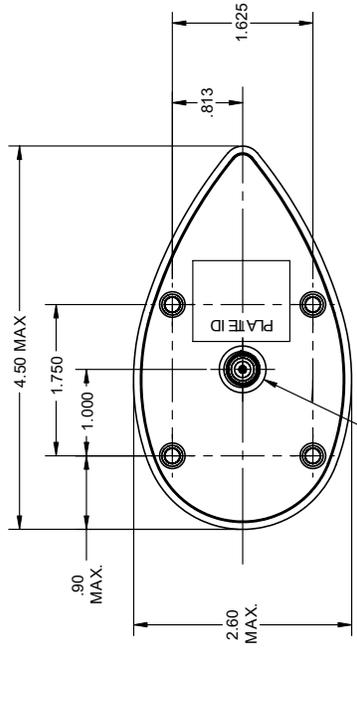
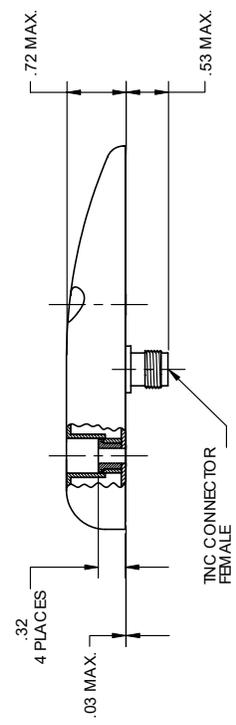
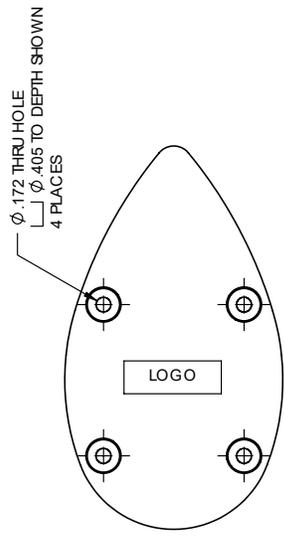


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Ø .625 CONNECTOR CLEARANCE HOLE REQUIRED ON AIRCRAFT

INSTALLATION DRAWING
ASSY DWG NO. C42027

REVISIONS	
LTR	DESCRIPTION
A	RELEASED DRAWING
B	REF ECN 08-095

DATE	APPROVAL
8/28/04	WS
11/18/08	DH 11/19/08

ANTENNA NOTES & SPECIFICATIONS

- 1.0 PASSIVE ANTENNA CHARACTERISTICS (T_A = -55° C TO +70° C)
 - 1.1 FREQUENCY 1575.42 ± 3MHz
 - 1.2 POLARIZATION RIGHT HAND CIRCULAR
 - 1.3 AXIAL RATIO 3.0 dB ON BORESIGHT (ZENITH) MAX.
 - 1.4 POWER HANDLING 1.0 WATT
 - 1.5 RADIATION GAIN PATTERN MINIMUM
 - 1.0 dBIC 0 < or = θ < 75°
 - 2.5 dBIC 75° < or = θ < 80°
 - 4.5 dBIC 80° < or = θ < or = 85°
 - 7.5 dBIC θ = 90° (HORIZON)
 - +5.0 dBIC nominal at θ = 0° (ZENITH)
 - 1.6 AZIMUTH GAIN VARIATION < or = 3.0 dB AT > or = 5° ELEVATION
- 2.0 PREAMPLIFIER CHARACTERISTICS (T_A = 20° C ± 5° C)
 - 2.1 GAIN AT 1575.42 ± 3MHz 27.0 dB MIN - 30.5 dB MAX.
- 3.0 PREAMPLIFIER CHARACTERISTICS (T_A = -55° C TO +70° C)
 - 3.1 FREQUENCY 1575.42 ± 3MHz
 - 3.2 OUTPUT IMPEDANCE 50 OHMS (NOMINAL)
 - 3.3 OUTPUT VSWR 1.5 : 1 MAX.
RFL -13.98 dB
 - 3.4 GAIN AT 1575.42 ± 3MHz 26.5 dB MIN - 31.5 dB MAX.
 - 3.5 NOISE FIGURE 3.8 dB MAX.
 - 3.6 SELECTIVITY -35 dB MIN. SATCOM BAND (1626.5 MHz)
 - 3.7 DC VOLTAGE 4 TO 24 VDC
 - 3.8 DC CURRENT 25 mA MIN / 40 mA MAX.
 - 3.9 STABILITY UNCONDITIONALLY STABLE FOR ANY LOAD IMPEDANCE ON TNC CONNECTOR
 - 3.10 BURNOUT PROTECTION 30dBm / 1.0 W CW UNMODULATED
4.2 Oz. MAX.
- 4.0 WEIGHT 330 KIAS AT SEA LEVEL
- 5.0 SPEED RATING TNC FEMALE
- 6.0 CONNECTOR C144 (INCOMPLETE SYSTEM)
- 7.0 TSO RTCA DO-160D ENV. CAT.: [F2X]ACB(S)(U)(F)(1)(TC)(1,R);XRFDXSXXX[XX]XXXXX[1]B[CA]
- 8.0 A42017 INSTALLATION INSTRUCTION SUPPLIED WITH ANTENNA.
- 9.0 RADOME MATERIAL: WHITE NYLON WITH UV INHIBITOR.

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 Y14.5M		CONTRACT NO.	
MATERIAL:		GPS ANTENNA	
DO NOT SCALE DRAWING		Comant Industries, inc.	
APPROVALS		DATE	
DRAWN J. FRANKS		8/26/04	
CHECK J. GOMEZ		8/26/04	
ENGR W. STIERHOFF		8/27/04	
QC S ADAMS		8/26/04	
APPD W. STIERHOFF		8/27/04	
DWG NO. C 51351		REV. B	
SCALE: 1:1		SHEET: 1 OF 1	