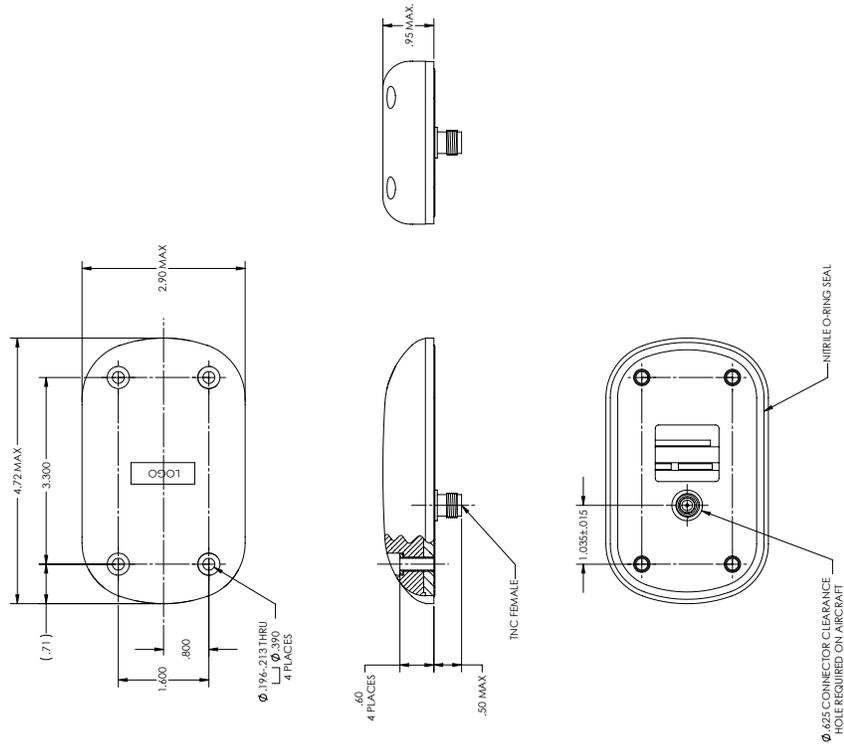


REVISIONS			
LR	DESCRIPTION	DATE	APPROVED
D	REF ECH 06-41	05/03/06	DIH 05/03/06
E	REF ECH 07-56	05/15/07	AV 05/15/07
F	REF ECH 07-189	10/01/07	AV 10/02/07
G	REF ECH 08-05	01/22/08	AV 01/22/08
H	REF ECH 08-05	01/22/08	AV 01/22/08
I	REF ECH 19-068	09/09/10	DIH 09/09/10
J	REF ECH 19-068	09/09/10	DIH 09/09/10
K	REF ECH 22-081	4/21/22	DIH 04/21/22

ANTENNA NOTES & SPECIFICATIONS

- 1.0 PASSIVE ANTENNA CHARACTERISTICS (TA = -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 BORE-SIGHT (ZENITH) MAX.
 - 1.4 POWER HANDLING _____ 1.0 WATT
 - 1.5 RADIATION GAIN PATTERN MINIMUM _____
 - 1.0 dBic @ $\alpha < \alpha < 75^\circ$
 - 2.5 dBic @ $\alpha < \alpha < 80^\circ$
 - 4.5 dBic @ $80^\circ < \alpha < \alpha < 85^\circ$
 - 7.5 dBic @ $\alpha = 90^\circ$ (HORIZONTAL)
 - +5.0 dBic nominal @ $\alpha = 90^\circ$ (ZENITH)
- 1.6 AZIMUTH GAIN VARIATION _____ $\alpha < \alpha < 3.0$ dB AT $\alpha > \alpha < 9^\circ$ ELEVATION
- 2.0 PREAMPLIFIER CHARACTERISTICS (TA = 20° C ± 5° C) _____
- 3.1 GAIN AT 1575.42 ± 3MHz _____ 27.0 dB MIN - 30.5 dB MAX.
- 3.0 PREAMPLIFIER CHARACTERISTICS (TA = -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.
- 3.4 RETURN LOSS _____ 13.98 dB
- 3.5 NOISE FIGURE _____ 29.5 dB MIN - 31.5 dB MAX.
- 3.6 SELECTIVITY _____ 40 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 _____ 3000m / 1.0 W CW UNMODULATED
- 3.11 DIFFERENTIAL GROUP DELAY _____ 1.4 ns TYP. / 1.7 ns MAX.
- 4.0 WEIGHT _____ 6.2 Oz. MAX.
- 5.0 DELETED _____
- 6.0 CONNECTOR _____ TNC FEMALE
- 7.0 TSO _____ C144, RFA DO-160D
- ENV. CAT.: IP2XACB5(UIC.C1)R1J5F0S2XAC(F)J2C1W1H(A)3331181CA
- 8.0 A40101 INSTALLATION INSTRUCTION SUPPLIED WITH ANTENNA.
- 9.0 FINISH: GLOSSY WHITE
- 10.0 TRANSDUCER COMPRESSION POINT AND SELECTIVITY _____
- 10.1 1dB COMPRESSION POINT (ANTENNA TO RECEIVE PORT) _____ +15.4dBm MIN AT 1618 MHz (CW)
- 10.2 SELECTIVITY AT 1618 MHz (ANTENNA TO RECEIVE PORT) _____ -48 dBm



INSTALLATION DRAWING

UNLESS OTHERWISE SPECIFIED		CONTRACT NO.	
DIMENSIONS ARE IN INCHES		DRAWING NO.	
DECIMALS .XX ± .03 .XXX ± .010		DATE	
FRACTIONS 1/16 ± .005 3/16 ± .005		APPROVALS	
HOLE POSITIONING PER ANSI B46.1		DRAWN J. FRANKS	
MACHINE FINISH UNLESS NOTED		CHECK J. GOMEZ	
SHARP EDGES .015 MAX		ENGR D. HOLLOWAY	
DIMENSIONS ARE PER ASME Y14.5M		MATERIAL:	
MATERIAL: _____		REV	
_____		D 51351 CI 401-220 K	
_____		SCALE: 1:1 CAD FILE: _____	
DO NOT SCALE DRAWING		SHEET: 1 OF 1	

ASSEMBLY DRAWING C40198

Comant Industries, Inc.

GPS COMDAT ANTENNA