REVISIONS

LTR	DESCRIPTION		DATE	APPROVED
C	REF ECN 02-359	HN	12/16/02	DH 12/17/02
D	REF ECN 05-41	HN	02/18/05	JF 02/18/05
E	REF ECN 05-176	HN	08/09/05	JF 08/09/05
F	REF ECN 08-095	MN	11/11/08	DH 11/11/08
G	REF ECN 20-014	RM	2/25/20	DH 2/27/20
H	REF ECN 22-091	RM	5/23/22	DH 05/23/22
J	REF ECN 22-136	RM	7/21/22	DH 07/21/22

DWG NO CI 420-1   REV. J

NOTES :

1.0   ACTIVE & PASSIVE ANTENNA CHARACTERISTICS

1.1   FREQUENCY ————————— 2332.5 TO 2345.0 MHz

1.2   VSWR ————————— 1.5:1 MAX.

1.3   POLARIZATION ————————— LEFT HAND CIRCULAR

1.4   RADIATION PATTERN ————————— HEMISPHERICAL

1.5   IMPEDANCE ————————— 50 OHMS OUTPUT (NOMINAL)

1.6   GAIN (MEASURED ON 4' CIRCULAR GROUND PLANE): 4 dBic +/- 1 dB NOM. ZENITH.

2.0   AMPLIFIER CHARACTERISTICS ACTIVE ANTENNA

2.1   GAIN ————————— 26 TO 30 dB

2.2   D.C. VOLTAGE ————————— 4.7 VOLTS TYP. / 5.5 VOLTS MAX.

2.3   D.C. CURRENT ————————— 45 mA TYPICAL / 55 mA MAX.

2.4   NOISE FIGURE ————————— 1.1 dB (TYP.)

2.5   OUT OF BAND FILTER ATTENUATION: 25 dB MIN. @ FC +/- 230 MHz

3.0   WEIGHT: 4.2 OZ MAX.

4.0   SPEED RATING : 600 KNOTS

5.0   RTCA DO-160D ENV. CAT.: [F2X]ACB[T(C1,R)]XRFXXS2XXX2[UUU]M[XXE2][1B]CA

6.0   HOUSING: VALOX DR-48, 15% GLASS.

7.0   A42042 INSTALLATION INSTRUCTIONS SUPPLIED WITH ANTENNA.

8.0   PLACE LABEL BELOW REFERENCE LINE.

Ø .173 THRU HOLE
⌴ .405 x DEPTH SHOWN
4 PLS

0.35

0.72 MAX.

0.31 MAX.

0.030 MAX.

SMA CONN. FEM.

1.625

0.812

4.30 MAX.

1.750

1.000

0.95 MAX.

2.70 MAX.

SEE NOTE 8

XM SATELLITE ANTENNA

FAA / PMA

Ø .437 CONNECTOR CLEARANCE HOLE
REQUIRED ON AIRCRAFT.

ASSY. DWG. C42001

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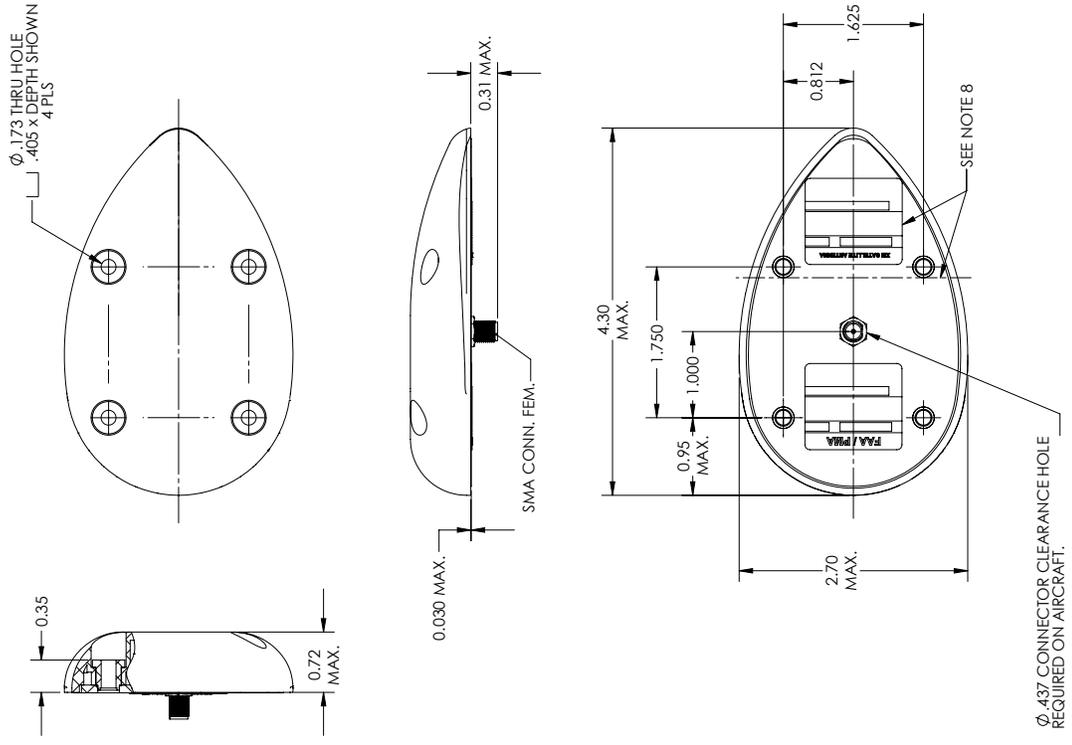
UNLESS OTHERWISE SPECIFIED	CONTRACT NO.			
DIMENSIONS ARE IN INCHES TOLERANCES ON		APPROVALS		DATE
DECIMALS .XX ±.03 .XXX ±.010 FRACTIONS ± 1/16 ANGLES ± 1°	DRAWN	H. Nguyen	10/21/02	
MACHINE FINISH 125 √ PER ANSI-B46.1 REMOVE BURRS AND SHARP EDGES .015 MAX	CHECK	J. GOMEZ	10/21/02	
	ENGR	D. HOLLOWAY	10/21/02	
MEET DIMENSIONS BEFORE PLATING DIMENSIONS ARE PER ASME Y14.5M	QC	P. BOSNEANU	10/21/02	
MATERIAL :	APPD	D. HOLLOWAY	10/21/02	
DO NOT SCALE DRAWING				

Comant Industries, inc.

ANTENNA-XM SATELLITE

CODE IDENT 51351

DWG SIZE C

DWG. NO. CI 420-1

REV. J

SCALE: 1:1   CAD FILE: --   SHEET: 1 OF 1