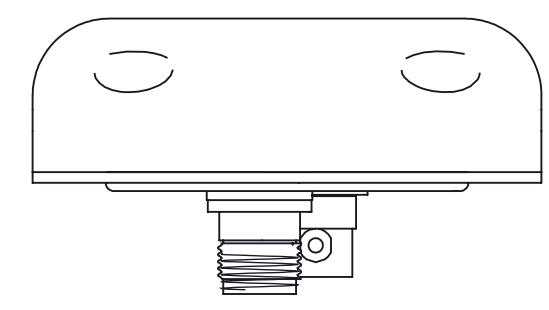
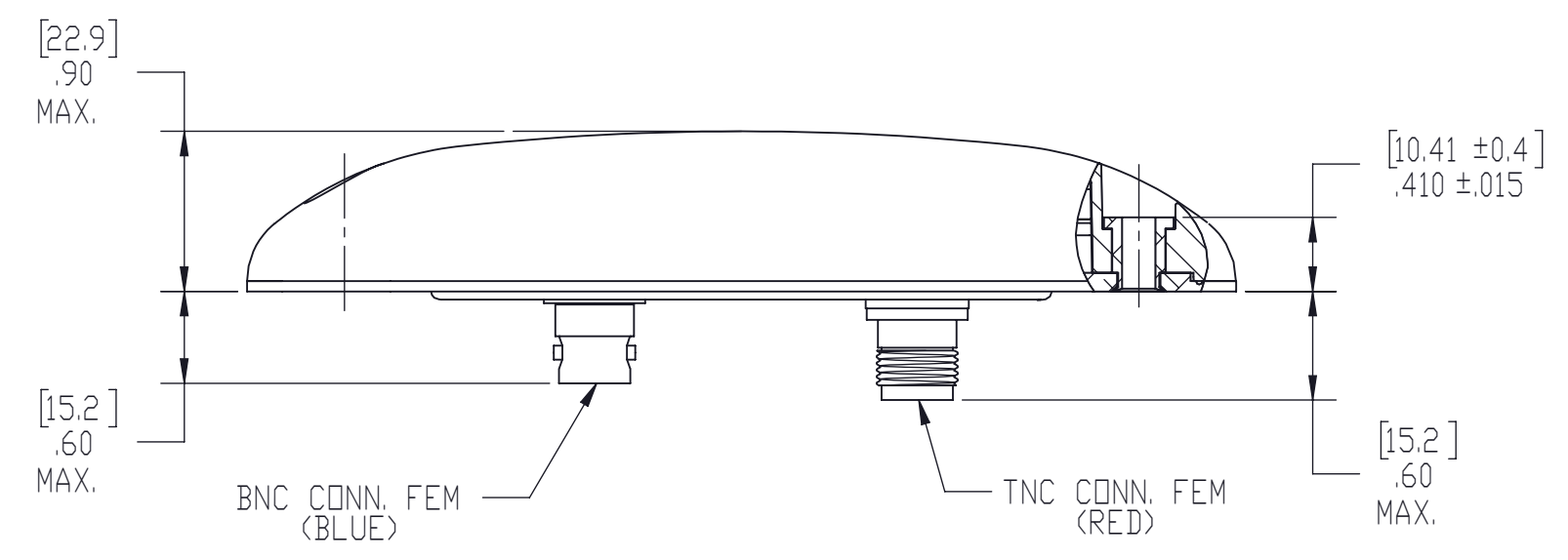
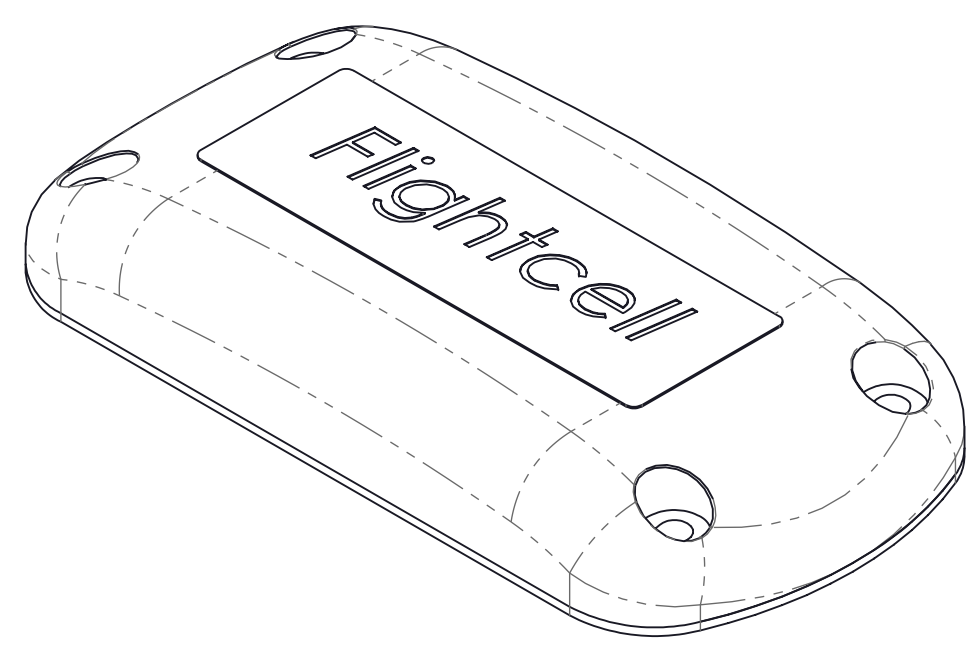
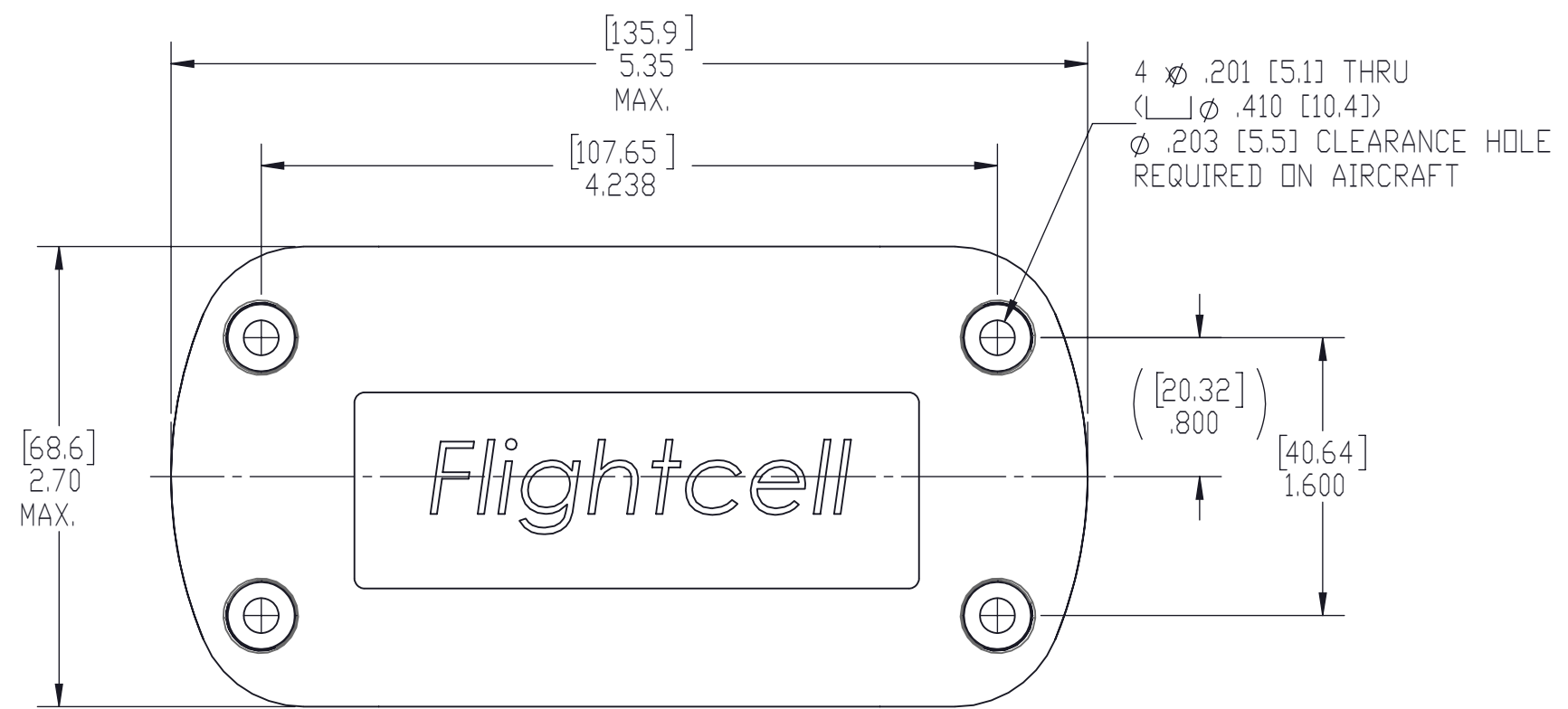
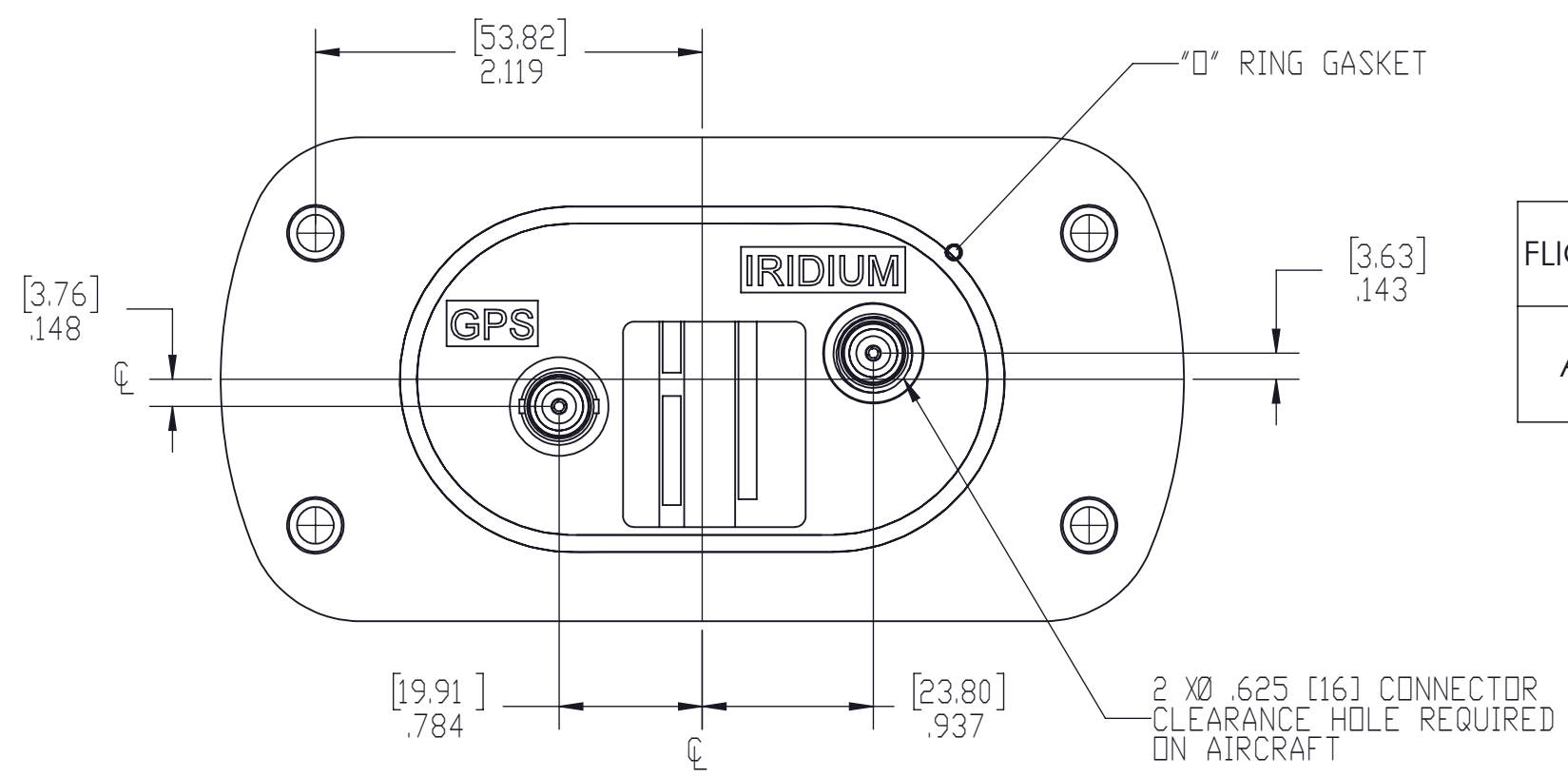


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REVISIONS			
LTR	DESCRIPTION	DRAWN	DATE
1.0	RELEASED DRAWING	J.GLASGOW	19/11/19



[mm]
inch



FLIGHTCELL P/N	DESCRIPTION	MANUFACTURER	MANUFACTURER'S P/N
ANP_00043	DUAL FLAT ANTENNA L1 GPS/IRIDIUM BNC/TNC WHITE TSO CERT.	COMANT INDUSTRIES, Inc.	CI 490-500

INSTALLATION DRAWING

UNLESS OTHERWISE SPECIFIED		Flightcell International Ltd	
DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS .XX \pm .03 .XXX \pm .010 FRACTIONS \pm 1/32 ANGLES \pm 1°		TITLE	
MACHINE FINISH 125 \checkmark PER ANSI- B46.1 REMOVE BURRS AND SHARP EDGES .015 MAX MEET DIMENSIONS BEFORE PLATING DIMENSIONS ARE PER ASME Y14.5M		IRIDIUM/GPS ANTENNA	
MATERIAL :		DWG SIZE	REV.
DO NOT SCALE DRAWING		C	1.0
		CAGE CODE	DWG. NO.
		EBL17	DRW_ANP_008
		SCALE: 1:1	SHEET : 1 OF 2
		CAD FILE: --	

DWG NO DRW_ANP_008 REV. 1.0

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1.0 GPS PASSIVE ANTENNA CHARACTERISTICS (T_A= -55° C TO +85° C)

- 1.1 FREQUENCY _____ 1575.42 MHz ± 10 MHz
- 1.2 POLARIZATION _____ RIGHT HAND CIRCULAR
- 1.3 AXIAL RATIO _____ 3.0 dB ON BORESIGHT (ZENITH) MAX.
- 1.4 PASSIVE RADIATION GAIN PATTERN HEMISPHERICAL
PASSIVE RADIATION GAIN _____ +5 dBic +/- 1 dBic NOM. (ZENITH)

GAIN PATTERN MEASURED ON 4' CIRCULAR ROUND PLANE WITH 2.0" RADIUS EDGES.

2.0 GPS PREAMPLIFIER CHARACTERISTICS (T_A= -55° C TO +85° C)

- 2.1 FREQUENCY _____ 1575.42 MHz ± 10 MHz
- 2.2 OUTPUT IMPEDANCE _____ 50 OHMS (NOMINAL)
- 2.3 OUTPUT VSWR _____ 1.5: 1 MAX.
R/L _____ -13.98 dB
- 2.4 GAIN AT 1575.42 ± 3MHz _____ 26.5 dB MIN – 30.1 dB MAX.
- 2.5 NOISE FIGURE _____ 2.5 dB MAX.
- 2.6 DC VOLTAGE _____ 2.8 TO 24 VDC
- 2.7 DC CURRENT _____ 30 TO 50 mA
- 2.8 LIGHTNING PROTECTION _____ DC GROUNDED

3.0 IRIDIUM SPECIFICATION

- 3.1 FREQUENCY _____ 1616.0 MHz TO 1626.5 MHz
- 3.2 POLARIZATION _____ RIGHT HAND CIRCULAR
- 3.3 AXIAL RATIO _____ 2.0 dB ON BORESIGHT (ZENITH) MAX.
- 3.4 RADIATION GAIN PATTERN _____ HEMISPHERICAL
- 3.5 PASSIVE RADIATION GAIN _____ +4 dBic +/- 1 dB NOM. (ZENITH)
GAIN PATTERN MEASURED ON A CIRCULAR GROUND PLANE WITH 2.0" RADIUS EDGES.
- 3.6 OUTPUT IMPEDANCE _____ 50 OHMS (NOMINAL)
- 3.7 OUTPUT VSWR _____ 1.5: 1 MAX.
R/L _____ -13.98 dB
- 3.8 POWER HANDLING _____ 6.5 Watts, 13 Watts PEAK WITH 37% DUTY CYCLE
- 3.9 LIGHTNING PROTECTION _____ DC GROUNDED

4.0 ANTENNA WEIGHT _____ 8.5 Oz. MAX.

5.0 TSO-C159d
RTCA DO-160G, ENV. CAT.: [F2X]ACE[R(C,C1)H(R)U(F,F1)]XSFSSXXXX[XXX][XX][XXXXXX][2A]AAC

6.0 FINISH: GLOSSY WHITE WITH
NICKEL PLATED ALUMINUM.

7.0 A49061 INSTALLATION INSTRUCTIONS SUPPLIED WITH ANTENNA.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON DECIMALS
.XX ± .03 .XXX ± .010
FRACTIONS ± 1/32 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

Flightcell International Ltd.			
IRIDIUM/GPS ANTENNA			
MATERIAL :	DWG SIZE C	CAGE CODE EBL17	DWG. NO. DRW_ANP_008
DO NOT SCALE DRAWING		SCALE: --	REV. 1.0
		CAD FILE: --	SHEET : 2 OF 2

DWG NO DRW_ANP_008 REV. 1.0