



**(+2.8 to +28) Volts DC**

**SPECIFICATIONS**

**ELECTRICAL:**

	DUAL IRIIDIUM	GPS	
<b>FREQUENCY:</b>	(1610.0 - 1626.5) MHz	(1575.4 ±13) MHz	
<b>RADIATION PATTERN:</b>	HEMISPHERICAL		
<b>POLARIZATION</b>	RHPC		
<b>VSWR:</b>	<2:1		
<b>IMPEDANCE:</b>	50Ω		
<b>ANTENNA GAIN (dBic):</b>	Free Space	Free Space	4 ft. G.P
@90° (ZENITH):	0	+4.6	+2.9
@10° Elevation:	-7.5	-2.5	-1.8
@20° Elevation:	-5.5	-1.1	+0.7
@30° Elevation:	-4.0	+0.5	+1.7
@60 - 90° Elevation:	-2.3	> 3.6	> 2.1
<b>BEAM WIDTH (3dB):</b>	98°-106°	103°	146°
<b>AXIAL RATIO @ Zenith:</b>	2 dB		
<b>POWER HANDLING:</b>	30 W	1 Watt	
<b>LIGHTNING PROTECTION:</b>	DC GROUNDING		
<b>FILTER:</b>	2 2-POL		
<b>LNA GAIN:</b>	N/A	(33.0+/-1.0)dB	
<b>LNA P 1dB Out:</b>	N/A	+16 dBm	
<b>LNA NOISE FIGURE:</b>	N/A	2.9 dB (filter loss is included)	
<b>VOLTAGE/CURRENT:</b>	N/A	(+2.8 To +28) Volts DC / (30 To 50) mA	

**MECHANICAL:**

**SIZE:** WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm]  
 HEIGHT: 0.913 in. [23 mm]

**WEIGHT:** <10 oz. (283g)

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL  
 BASE IRIDITE PER MIL-C-5541F

**MATERIAL:** 6061-T6 ALUMINUM ALLOY BASE  
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,  
 SKYDROL RESISTANCE, AND FIRE RETARDANT

**CONNECTOR:** GPS: BNC-F (Blue). IRIDIUM: TNC-F (Red), IRIDIUM: TNC-F (Red)

**MOUNTING:** FLAT FIXED MOUNT; O-RING, WASHER &  
 4 x 10-32 MOUNTING SCREWS PROVIDED

**ENVIRONMENTAL:**

**TEMPERATURE:** -67 °F TO +185 °F [-55 °C TO +85 °C]

**ALTITUDE:** 70,000 ft.

**VIBRATION:** > 30 G's

**LEAKAGE:** HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-S-901D/MIL-STD-167  
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MOUNTING WASHER: √ φ.370 x 100° .110 THICK	3G15P1001-70		3
4	MOUNTING SCREWS: 10-32, 100° FLAT HEAD 1.5"	MS24693C280		2
1	O-RING	2-038-N756-75	-	1

FLIGHTCELL P/N:	DESCRIPTION:	MANUFACTURERS P/N:	COLOR:
ANP_00038	3 Port Flat Antenna L1 GPS/Iridium/Iridium BNC/TNC/TNC White TSO Cert	S5GIR151616RRR-APP-XBTT-1	GLOSS WHITE #17925 PER FED-STD-595B

NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

REV	DESCRIPTION	DATE	APPD
1.0	Updated Antcom part number	10/04/18	HB
1.0	Initial Drawing Release.	02/02/18	HB

GENERAL LIMITS (UNLESS STATED)  
 LINEAR: 0.XX +/- .030  
 0.XXX +/- .015  
 ANGLES: +/- 1°  
 ALL DIMENSIONS IN INCHES



DO NOT SCALE OFF DRAWING  
 IF IN DOUBT ASK!  
 DRAWN: HB  
 CHK'D: JG  
 APPV'D: JG  
 ORIGINAL SCALE: 1:1  
 DRAWING SIZE: A3



TITLE:	VERSION:
<b>Dual Iridium/GPS Antenna</b>	<b>1.0</b>
PART NO: <b>ANP_00038</b>	
PROJECT: <b>FLIGHTCELL DZMx</b>	
DWG NO: <b>DRW_ANP_007</b>	