

(+2.8 to +28) Volts DC

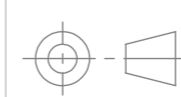
MANUFACTURER: ANTCOM

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
3.0	Removed TSO reference and added Manufacturer #QS-400	08/03/19	JG
2.0	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: JG
 CHK'D: HB
 APPV'D: JG
 ORIGINAL SCALE: 1:1
 DRAWING SIZE: A3



TITLE: **Dual Iridium/GPS Antenna**
 PART NO: **ANP_00038** VERSION: **3.0**
 PROJECT: **FLIGHTCELL DZMx**
 DWG NO: **DRW_ANP_007** SHEET 1 OF 1

SPECIFICATIONS

ELECTRICAL:

	DUAL IRIDIUM	GPS	
FREQUENCY:	(1610.0 - 1626.5) MHz	(1575.4 ±13) MHz	
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION	RHPC		
VSWR:	<2:1		
IMPEDANCE:	50Ω		
ANTENNA GAIN (dBic):	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
BEAM WIDTH (3dB):	98°-106°	103°	146°
AXIAL RATIO @ Zenith:	2 dB		
POWER HANDLING:	30 W	1 Watt	
LIGHTNING PROTECTION:	DC GROUNDING		
FILTER:	2 2-POL		
LNA GAIN:	N/A	(33.0+/-1.0)dB	
LNA P 1dB Out:	N/A	+16 dBm	
LNA NOISE FIGURE:	N/A	2.9 dB (filter loss is included)	
VOLTAGE/CURRENT:	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: 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