



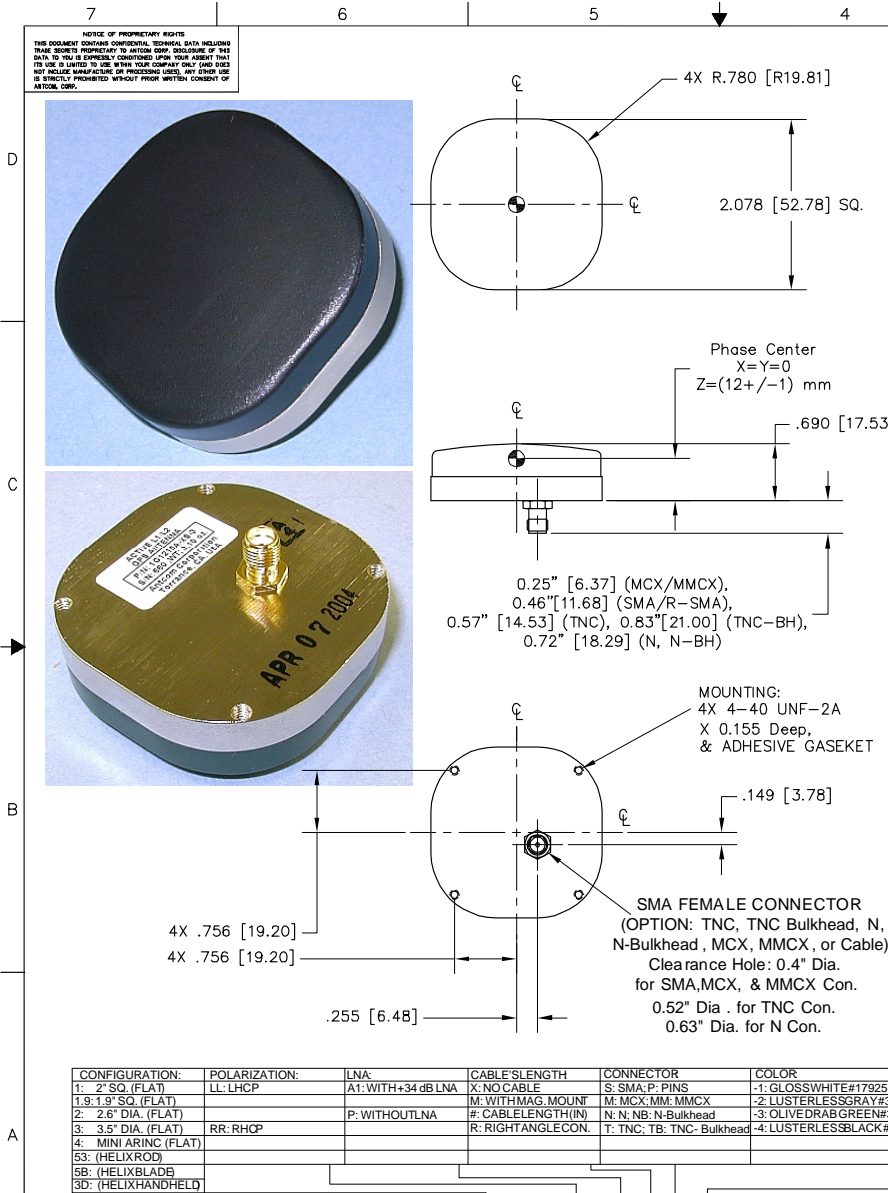
ISO 9001:2008/FAA Approved Facility

# Rx Beidou Antenna, P/N: 1B25RR-A-XS-1

## 2.0" Square, Back Mount Configuration



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### SPECIFICATIONS

ELECTRICAL:	
FREQUENCY:	(2483 - 2500) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P.      Free Space
@ 90° (Zenith):	+4.6      +5.1
@ 10° Elevation (Ave):	-1.1      -2.1
@ 20° Elevation (Ave):	+1.9      -0.3
@ 30° Elevation (Ave):	+2.6      +1.1
@ 45° Elevation (Ave):	+3.0      +2.6
@ 70° Elevation (Ave):	+4.0      +4.6
Beam Width (3dB):	139°      99°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

### LNA OPTION:

LNA GAIN:	(34 +/- 2) dB
LNA NOISE FIGURE:	2.5 dB
LNA VOLTAGE:	(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	< 38 mA
FILTER (REJ. @ 1616 MHz):	57 dB

### MECHANICAL:

- SIZE:** LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]  
HEIGHT: 0.690 in. [17.53 mm]
- WEIGHT:** 2.88 oz. (82 g)
- FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDITE PER MIL-C-5441
- MATERIAL:** 6061-T6 ALUMINUM ALLOY BASE  
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,  
SKYDROL RESISTANCE, AND FIRE RETARDANT
- CONNECTOR:** SMA FEMALE  
(OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead,  
MCX, MMCX, or Cable)
- ENVIRONMENTAL:**
- TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
  - ALTITUDE: 70,000 ft.
  - VIBRATION: > 30 G's
  - LEAKAGE: HERMETICALLY SEAL

### FEDERAL & MILITARY SPECIFICATIONS:

- DESIGN TO:** FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
- ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

CONFIGURATION:	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: LHCP	A1: WITH+34 dB LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSSWHITE#17925PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)			M: WITHMAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESSGRAY#36320PER FED-STD-595B
2: 2.6" DIA. (FLAT)		P: WITHOUTLNA	#: CABLELENGTH(IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN#34031PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESSBLACK#37038PER FED-STD-595B
4: MINI ARINC (FLAT)					
5S: (HELIX ROD)					
5B: (HELIX BLAD)					
5D: (HELIX HANDHELD)					

QUANTITY	REVISION	DESCRIPTION	PART NO	MATERIAL	FINISH	TEN NO.
		ADHESIVE GASKET	12345G-3M-1G	-	-	5
						3
						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ARE IN DEGREES

FRACTIONS: DECIMALS: DIMENSIONS: ± 1/64 ± .005 ± .005 ± .005

TOLERANCE SYM PER ANSI Y14.5

REMOVE ALL BURRS BREAK INTERNAL EDGES ADD TO .015 FILLETS R .005 TO R .030 SOFTEN EDGES FOR EASY ASSEMBLY DIA'S ON A COMMON S. 2005

MACHINED SURFACES

DO NOT SCALE DRAWING

ENGINEER: S. HUYNH  
APPROVED: DEC-13-02

DATE FILE NO

SCALE 1/1

ANTCOM CORP. TORRANCE CALIFORNIA

2in SQ. FLAT FIXED MOUNT  
Active Rx Beidou ANTENNA

REV: D 3CVE1 1B25RR-A-XS-1

SHEET 1 OF 1

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

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