



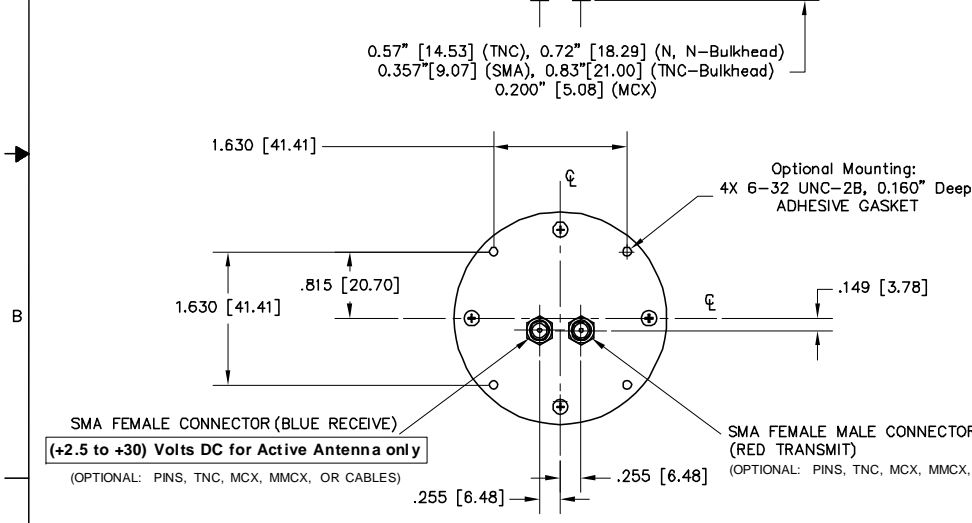
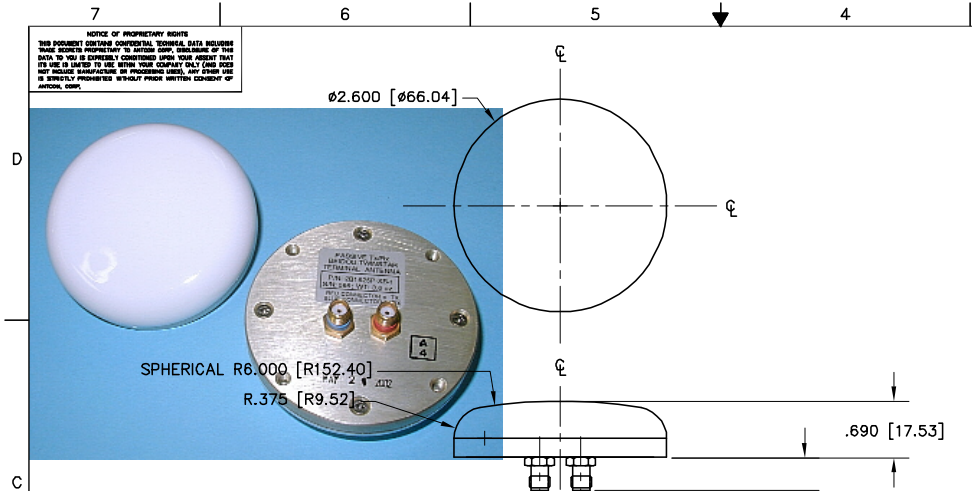
ISO 9001:2008/FAA Approved Facility

Tx/Rx Beidou Antenna, P/N: 2B1625LR-P-XS-XF0

2.6" Diameter, Bulkhead/Back Mount Configuration



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SMA FEMALE CONNECTOR (BLUE RECEIVE)
 (+2.5 to +30) Volts DC for Active Antenna only
 (OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLES)

Optional Mounting:
 4X 6-32 UNC-2B, 0.160" Deep,
 ADHESIVE GASKET

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

SPECIFICATIONS			
ELECTRICAL:			
FREQUENCY:	TX (1610 - 1625) MHz		RX (2484 - 2499) MHz
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	LHCP	RHCP	
VSWR:	< 1.5:1		
GAIN (dB):	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (Zenith):	+4.4	+4.3	+2.2
@ 10° Elevation (Ave):	-1.6	-2.9	-1.4
@ 20° Elevation (Ave):	+1.1	-1.2	+1.3
@ 30° Elevation (Ave):	+2.1	+0.5	+0.4
@ 45° Elevation (Ave):	+2.3	+2.5	+0.6
@ 70° Elevation (Ave):	+3.7	+4.2	+0.0
AXIAL RATIO @ Zenith:	2 dB		2 dB
POWER HANDLING:	>5 W 1 Watt		
DC GROUNDING:	YES (LIGHTNING PROTECTION)		
FILTER (REJ. @1618 MHz):	57 dB		
LNA GAIN:	N/A	(35 +/- 1) dB	
LNA NOISE FIGURE:	N/A	2.8 dB (FO)	
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON.	
LNA DRAWING CURRENT:	N/A	< 38 mA	

MECHANICAL:	
SIZE:	DIAMETER: 2.60 in. [66.04 mm] HEIGHT: 0.690 in. [17.53 mm]
WEIGHT:	4.00 oz. (113 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	Tx (Red): SMA FEMALE, Rx (Blue): SMA FEMALE (OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLES)
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

SIZE	FREQ. BAND	POLARIZATION	LNA	FILTER
1: 2" SQ.	1625: Tx/Rx	LL: TX: LHCP, RX: LHCP	A1: WITH +35 dB LNA	F0: NO FILTER (20 dB Isolation)
1.8" 1.0" SQ.	25: Rx ONLY	LR: TX: LHCP, RX: RHCP		F1: 57 dB REJECTION @ 1618 MHz
2: 2.6" DIA.	16: Tx ONLY	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	F2: >100 dB REJECTION @ 1618 MHz
3: 3.5" DIA.		RR: TX: RHCP, RX: RHCP		
4: MINI ARINC				

2B1625LR-X-XX-XFX

CABLES LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG	M: MCX: MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
P: CABLE LENGTH (IN)	N: NB: N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF NO.
						5
	ADHESIVE GASKET	123456-3M-2G				3
						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS TO DECIMALS AND ANGLES TO DEGREES
 ± 1/64 DECIMALS ± 1°
 TOLERANCE SHG PER ASH Y14.5
 BEWELD ALL SURFACES
 BREAK INTERNAL EDGES .045 TO .015
 FILED TO .005 TO .010
 DAYS ON A CORNER & 2 DAYS
 MACHINED SURFACES
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 2.6" DIAMETER,
 FIXED MOUNT
 BEIDOU ANTENNA

APPROVED: S. HUYVH 01-05-29
 D 3CVE1 2B1625LR-X-XX-XFX
 SCALE 1/1 SHEET 1 OF 1