



ISO 9001:2008/FAA Approved Facility

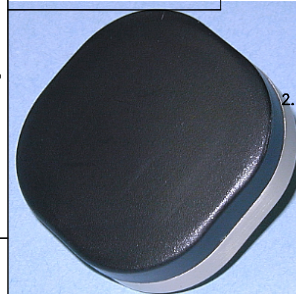
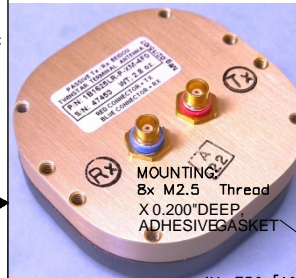
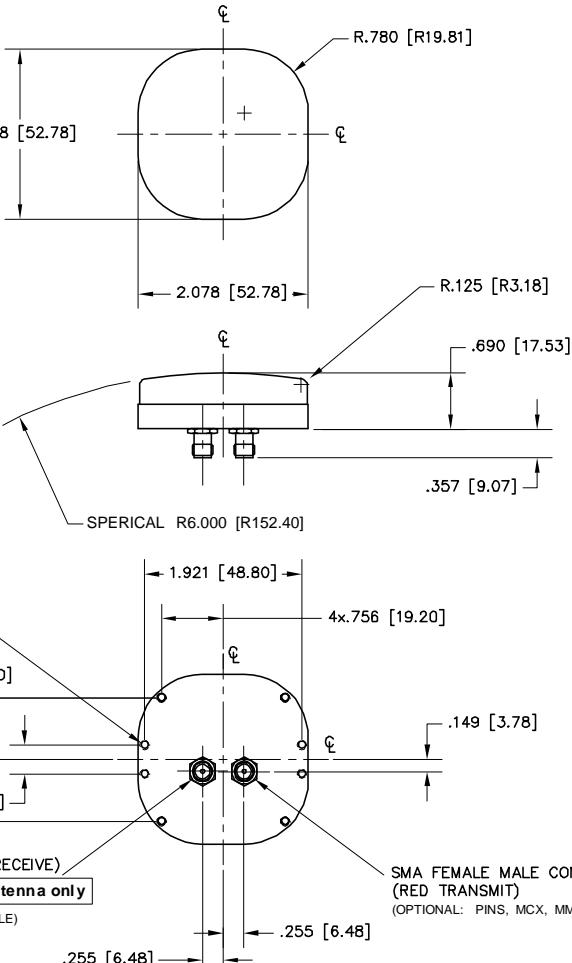
Tx/Rx Beidou Antenna, P/N: 1B1625LR-P-XS-4F0

2.0" Square, Back Mount Configuration



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Dimensions:
 2.078 [52.78]
 R.780 [R19.81]
 R.125 [R3.18]
 .690 [17.53]
 .357 [9.07]
 SPHERICAL R6.000 [R152.40]
 1.921 [48.80]
 4x.756 [19.20]
 .149 [3.78]
 2X 1.512 [38.40]
 .354 [9.00]
 .255 [6.48]
 .255 [6.48]

CONNECTORS:
 SMA FEMALE CONNECTOR (BLUE RECEIVE)
 (+2.5 to +30) Volts DC for Active Antenna only
 (OPTIONAL: PINS, MCX, MMCX, OR CABLE)
 SMA FEMALE MALE CONNECTOR (RED TRANSMIT)
 (OPTIONAL: PINS, MCX, MMCX, OR CABLE)

Other Dimensions:
 4x .756 [19.20]
 2X 1.512 [38.40]
 .354 [9.00]
 .149 [3.78]
 .255 [6.48]

SPECIFICATIONS

ELECTRICAL:

	TX	RX	
FREQUENCY:	(1610 - 1625) MHz	(2484 - 2499) MHz	
RADIATION PATTERN:	HEMISPHERICAL		SEE PART NO. BELOW
POLARIZATION:	LHCP	RHCP	
VSWR:	< 1.7:1	< 1.5:1	
GAIN (dBic):	4 ft G.P. Free Space	4 ft G.P. Free Space	
@ 90° (Zenith):	+4.4	+4.0+/-0.5	+2.2
@ 10° Elevation:	-1.6	-3.5+/-0.5	-1.4
@ 20° Elevation:	+1.1	-1.1+/-0.5	+1.3
@ 30° Elevation:	+2.1	+0.0+/-0.5	+0.4
@ 45° Elevation:	+2.3	+1.7+/-0.5	+0.6
@ 70° Elevation:	+3.7	+3.3+/-0.5	+0.0
AXIAL RATIO @ Zenith:	2 dB	2 dB	
POWER HANDLING:	5 W (F1), 30 W (F2)	1 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)		
ISOLATION @1616 MHz:	20 dB (F0 Option), 57 dB (F1), > 100 dB (F2)		

LNA OPTION:

	N/A	(35 +/- 1) dB (A1)
LNA GAIN:		
LNA NOISE FIGURE:	N/A	1.4 dB (F0 Option), 2.2 dB (F1), 3 dB (F2)
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	N/A	< 38 mA (A1)

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. (.082 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE 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, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
 CONNECTOR: Tx (Red): SMA FEMALE, Rx (Blue): SMA FEMALE (OPTIONAL: PINS, 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF NO
1	ADHESIVE GASKET	123456-3M-1G				5
1						3
1						1

QUANTITY REQUIRED

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF NO
-2						1
-1						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 DECIMALS AND ANGLES
 ± 1/64 .005 .015 ± 1°
 TOLERANCE SHIP PER ASH Y14.5
 BEVEL ALL EDGES
 BREAK SHARP EDGES AND TO .015
 FILE ALL .015 TO .030
 FILE ON A CORNER & .250
 MACHINED SURFACES
 DO NOT SCALE DRAWING

1B1625LR-P-XS-4F0

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 M: 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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

APPROVED: S. HUYNH 01-05-29

SCALE 1/1

SHEET 1 OF 1

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