

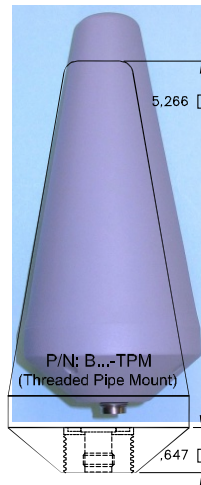
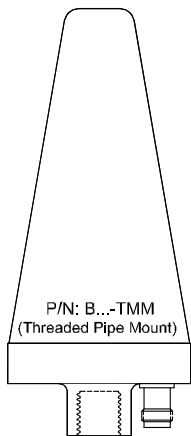


**New Ruggedized, High Corrosion/Harsh Environmental Resistant Helix Antennas**  
**Inmarsat/Iridium/L1GPS/Glonass/Omnistar:** P/N: **B1NR-X-XX-U-XXX**, **Iridium/L1GPS/Glonass/Omnistar:** P/N: **B1RR-X-XX-U-XXX**,  
**Thuraya/Tx-Globalstar:** P/N: **BTL-X-XX-U-XXX**, **Active L1GPS:** P/N: **BL1-A-XX-U-XXX**,  
**Active L1GPS/Glonass/L-Band:** P/N: **BG3-A-XX-U-XXX**, **for Active L1/L2:** P/N: **BL1L2-A-XX-U-XXX**  
**for Buoy, Marines, Underwater, Ground, Weather Balloon, and Helicopter Applications**  
 Also Available in other Mounting Configurations of 3G, 4G, 42G, 5G, S5, Mini-Arinc, and Arinc-743 Antenna Series  
**Antenna Mounts:** <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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**ELECTRICAL:**

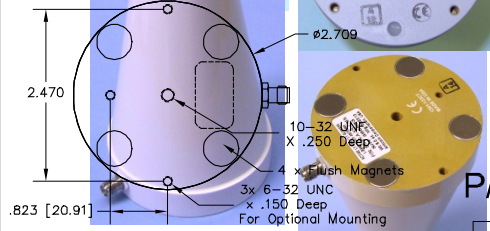
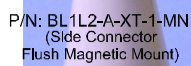
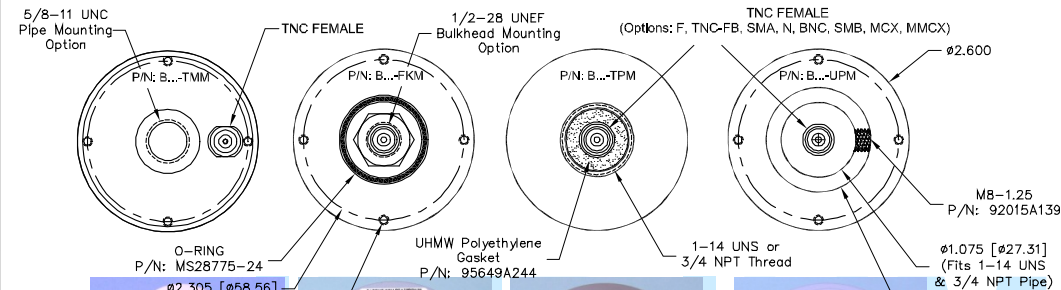
FREQUENCY (MHz):	REVISIONS					
	ZONE	REV	DESCRIPTION	DATE	APPROVED	
(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1598 - 1609)	(1610-1626.5)	(1217.42 ±15)	
GAIN (dBic) in FS/4ft GP	L1 GPS	Rx Inmarsat/B1 or Thuraya	Tx Inmarsat or Thuraya	GLONASS	IRIDIUM or Tx Globalstar	L2 GPS for L1/L2 Version
@ 90° (Zenith):	+1.1/+3.7	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	-0.1/+1.1	0.0
@ 10° Elevation:	-0.9/+0.0	-1.6/-1.3	-1.9/-1.0	-1.3/+0.2	-1.6/-0.8	-2.4 to -6.3
@ 20° Elevation:	-0.2/+2.0	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2	-1.8 to -4.8
@ 30° Elevation:	+0.3/+2.0	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1	-1.3 to -3.4
@ 45° Elevation:	+0.6/+1.5	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3	-0.5 to -1.5
@ 70° Elevation:	+0.3/+1.3	+0.3/+0.4	-1.6/0.0	-0.3/+1.1	-0.7/0.0	0.0 to -0.5
BEAM WIDTH (3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.	120/165 Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP	RHCP or LHCP	RHCP or LHCP	RHCP	RHCP or LHCP	RHCP
VSWR:	< 2:1					
DC GROUNDING:	YES (LIGHTNING PROTECTION)					

**LNA OPTION (for GNSS or GNSS/Rx only VERSIONS (-A-...)):**

LNA GAIN (OPTION):	33 dB
LNA NOISE FIGURE:	3.0 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(2.5 to 24)V / < 50mA
POWER HANDLING:	PASSIVE:10W; LNA ACTIVE: 1 Watt CW

**MECHANICAL:**

SIZE:	DIAMETER: 2.60in. [66 mm] HEIGHT: 5.266 in. [133 mm]
WEIGHT:	< 8oz. (226g)
FINISH:	HERMETICALLY SEAL & TEFLON COATED
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE & RUGGEDIZED RADOME IMPACT, ABRASION, UV, SOLVENT, SKYDROL, CORROSION RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	TNC FEMALE (OPTION: TNC-BK, F, SMA, BNC, N, MCX, MMCX)
ENVIRONMENTAL:	TEMPERATURE: -95 °F to +194 °F [-70 °C to +90 °C] -700ft to + 70,000 ft. (for -U-FKM/-U-TPM, from Mounting Surface) VIBRATION: 30 G's HERMETICALLY SEAL
FEDERAL & MILITARY SPECIFICATIONS:	FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-STD-461E/F, AND SAE J1455
ACCEPTANCE TEST PROCEDURE:	ATP-GPS-L1L2-100



**P/N: B1NR-P-XTB-U-XXX**

**5/8-11 Magnetic Standoff Antenna Mount, P/N: MTR-3M (Item 484c)**

FREQUENCY (GHz):	POLARIZATION:	LNA:	FEMALE CONNECTOR:	COLOR: -U: TEFLON COATED GRAY for MARINES/BUOY APP.
In: Inmarsat/Iridium/L1GPS/Glonass (RHCP); IR/Iridium/L1GPS/Glonass (RHCP)	R: RHCP	P: PASSIVE	T: TNC; TB: TNC-Bulkhead; F: F	-1: GLOSS WHITE #17525 PER FED-STD-595B PAINT
T: Thuraya/Tx Globalstar (LHCP); G: Tx only Globalstar (LHCP)	L: LHCP	A: with	S: SMA; SMB; SMBR; B: BNC	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B PAINT
L1: L1 GPS Only; G3: L1 GPS/GLONASS/L-Band/B1; L1L2:L1L2 GPS only	R: RHCP	LNA/FILTERS for	M: MCX; MM; MMCX; MMIR; MMCX-R	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B PAINT
G5: L1/L2 GPS/GLONASS/L-Band/B1/B3/B2/L5	R: RHCP	Rx only VERSIONS	N: NIN-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B PAINT
Lp1: QUAD-BAND GSM/PCS/L-Band/Locast/Wi-Fi/C-Band	V: Linear (Vertical)		S: SMC, SSMC, SSMB, SSMA	-5: TAN #; FS 23446 or 33446, FED-STD-595 PAINT

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	ITEM NO
2	Additional SILICON GASKET (Item 539a) for -FKM		3G15F001-2-2G	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ANGLES ± 1°

**ANTCOM CORP.** TORRANCE CALIFORNIA

DESIGNED BY: E. HUYHN Apr-11-11  
 CHECKED BY: E. HUYHN Apr-11-11  
 DRAWN BY: E. HUYHN Apr-28-13  
 DATE: Apr-28-13  
 SCALE: 1/1

DO NOT SCALE DRAWING