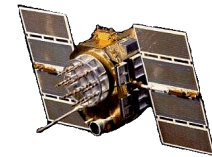


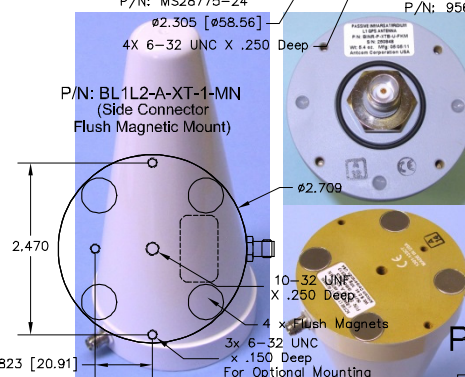
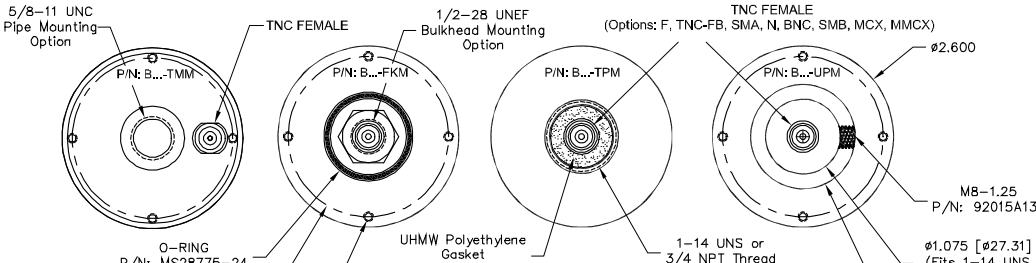
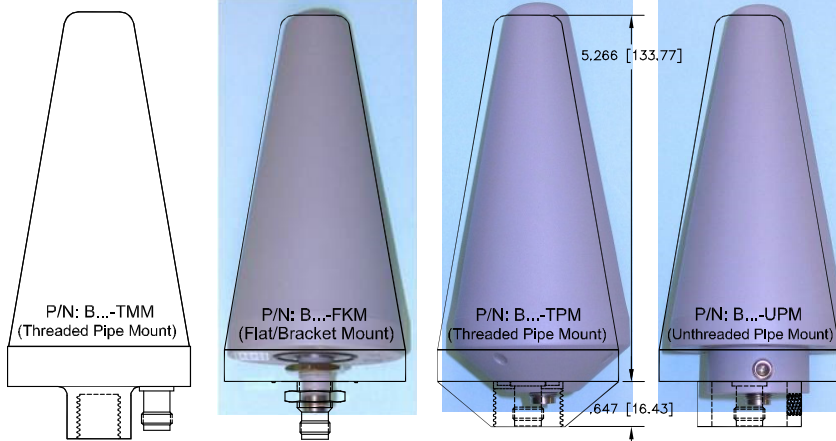


New Ruggedized, High Corrosion/Harsh Environmental Resistant Helix Antennas
 Inmarsat/Iridium/L1GPS/Glonass/Omnistar: P/N: *B1NR-X-XX-U-XXX*, Iridium/L1GPS/Glonass/Omnistar: P/N: *B1RR-X-XX-U-XXX*,
 Thuraya/Tx-Globalstar: P/N: *BTL-X-XX-U-XXX*, Active L1GPS: P/N: *BLL1-A-XX-U-XXX*,
 Active L1GPS/Glonass/L-Band: P/N: *BG3-A-XX-U-XXX*, for Active L1/L2: P/N: *BL1L2-A-XX-U-XXX*
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P/N: B1NR-P-XTB-U-XXX

SPECIFICATIONS

ELECTRICAL:	REVISIONS						
	ZONE	REV	DESCRIPTION	DATE	APPROVED		
FREQUENCY (MHz):	(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-45208A, MIL-STD-810, MIL-STD-461E/F, AND SAE J1455
ACCEPTANCE TEST PROCEDURE:	ATP-GPS-L1L2-100

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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	REV
2				
1	Additional SILICON GASKET (Item 539a) for -FKM	3G1-L1001-2-2G		1

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

ANTCOM CORP. TORRANCE CALIFORNIA

Inmarsat/Iridium/L1GPS or Inmarsat/Tx-Globalstar or L1-GPS, or L1-GPS/Glonass/L-Band/B1, or L1/L2-GPS, or L1/L2-GPS/Glonass/B1/B3/B2/L5 Antenna

D 3CVE1 BXXR-X-XX-X-XXX

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas