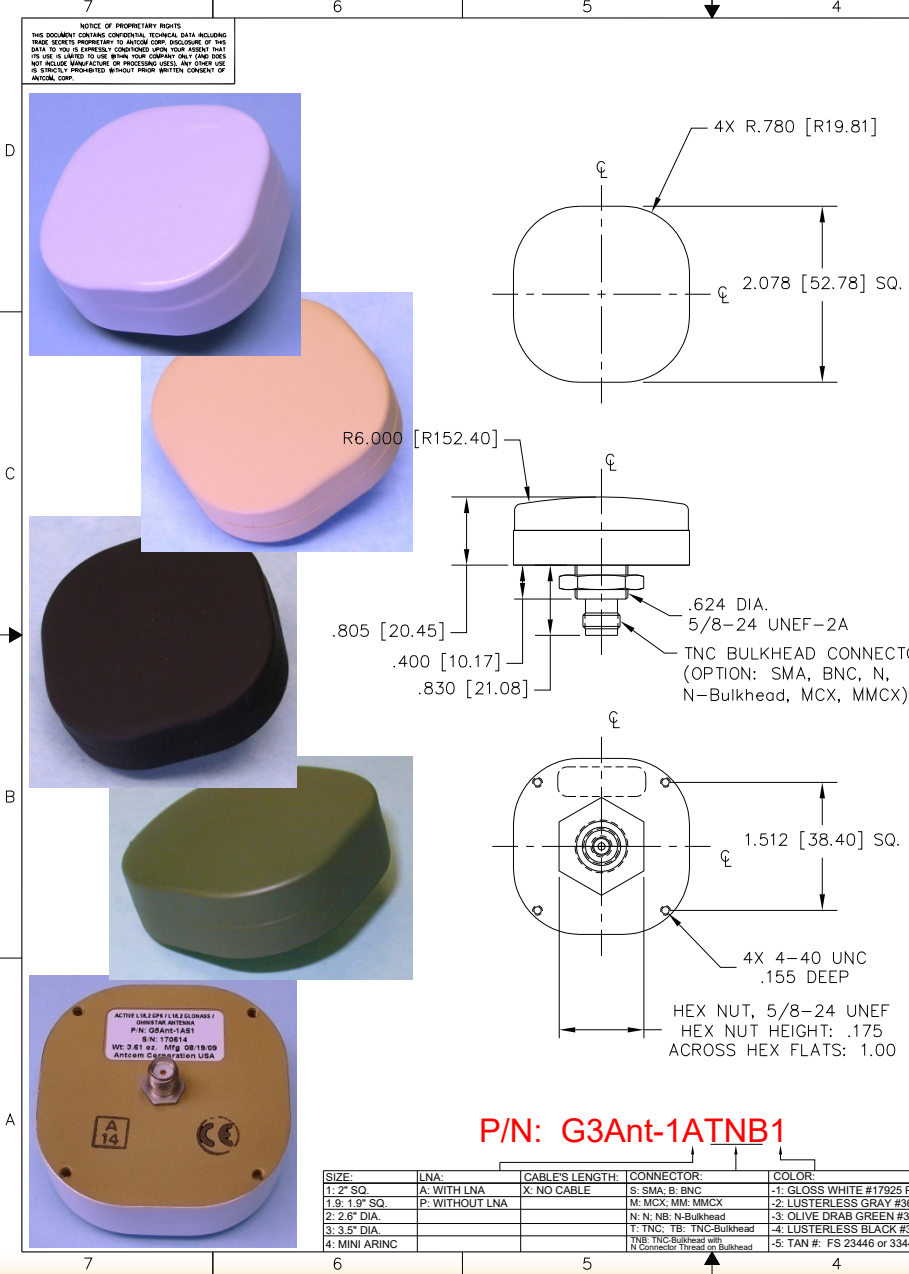


"-HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: **-22dB@1616MHz, -34dB@1625-1660MHz**
 "-HFO" for Additional Omnistar Rejection: **-27dB@1545MHz**



SPECIFICATIONS

ZONE	REV		REVISIONS		DATE	APPROVED
	NO.	BY	DESCRIPTION	NO.		

	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609 ± 7.0 MHz
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP	RHCP	RHCP
VSWR:	< 2.0:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space 5in G.P	Free Space 5in G.P	Free Space 5in G.P
@ 90° (ZENITH):	+ 1.9	+ 4.1	+ 2.0
@ 10° Elevation:	- 5.0	- 2.8	- 5.1
@ 20° Elevation:	- 3.9	- 1.9	- 4.1
@ 30° Elevation:	- 2.6	- 0.4	- 2.6
@ 60 - 90° Elevation:	> + 0.8	> 2.9	> + 0.8
BEAM WIDTH (3dB):	95 Deg.	97 Deg.	95 Deg.
AXIAL RATIO:	1 dB	1 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB	32 dB	31 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA		
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)		

MECHANICAL:

SIZE: LENGTH: 2.078 in. [52.78 mm] SQUARE
 HEIGHT: 0.805 in. [20.45 mm]
 WEIGHT: 3.7 oz. (105 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541F Class 1A
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
 SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: TNC FEMALE BULKHEAD
 (OPTION: TNC, N, N-Bulkhead, MCX, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 70,000 ft.
 VIBRATION: > 30 G's
 HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

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

QUANTITY	DESCRIPTION	PART NO.	FINISH	REMARKS
1	ADHESIVE GASKET	12345G-3M-1G	-	2

DATE	BY	DESCRIPTION
Aug-08-13	S. HUYNH	ORIGINAL DRAWN
Mar-19-09	S. HUYNH	ORIGINAL DESIGNED
Aug-08-13	S. HUYNH	UPDATED
Aug-08-13	P. TRAN	UPDATE DRAWN
Aug-08-13	S. HUYNH	APPROVED

ANTCOM CORP. TORRANCE CALIFORNIA	
2in Square	
L1 Glonass + L1 GPS + OmniStar G3 ANTENNA	
REV: D13CVE1	DRAWN BY: G3Ant-1ATNB1
SCALE: 1/1	SHEET 1 OF 1

P/N: G3Ant-1ATNB1

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	P: WITHOUT LNA		M: MCX; MIN: MMCX	-2: LUSTERLESS GRAY #33320 PER FED-STD-595B
2: 2.6" DIA.			N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34054 PER FED-STD-595B
3: 3.5" DIA.			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC			TNB: TNC-Bulkhead with N-Connector Thread on Bulkhead	-5: TAN #; FS 23446 or 33446, FED-STD-595

NMO Connector Option is Now Available for Some Antennas