

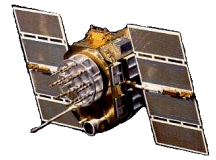


ISO 9001:2008/FAA Approved Facility

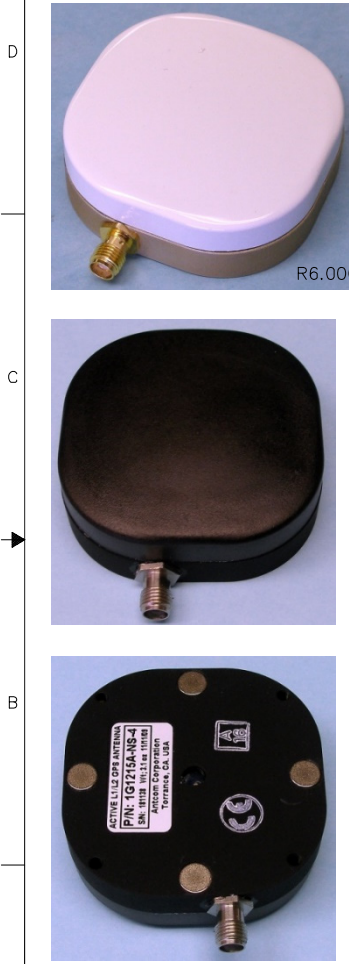
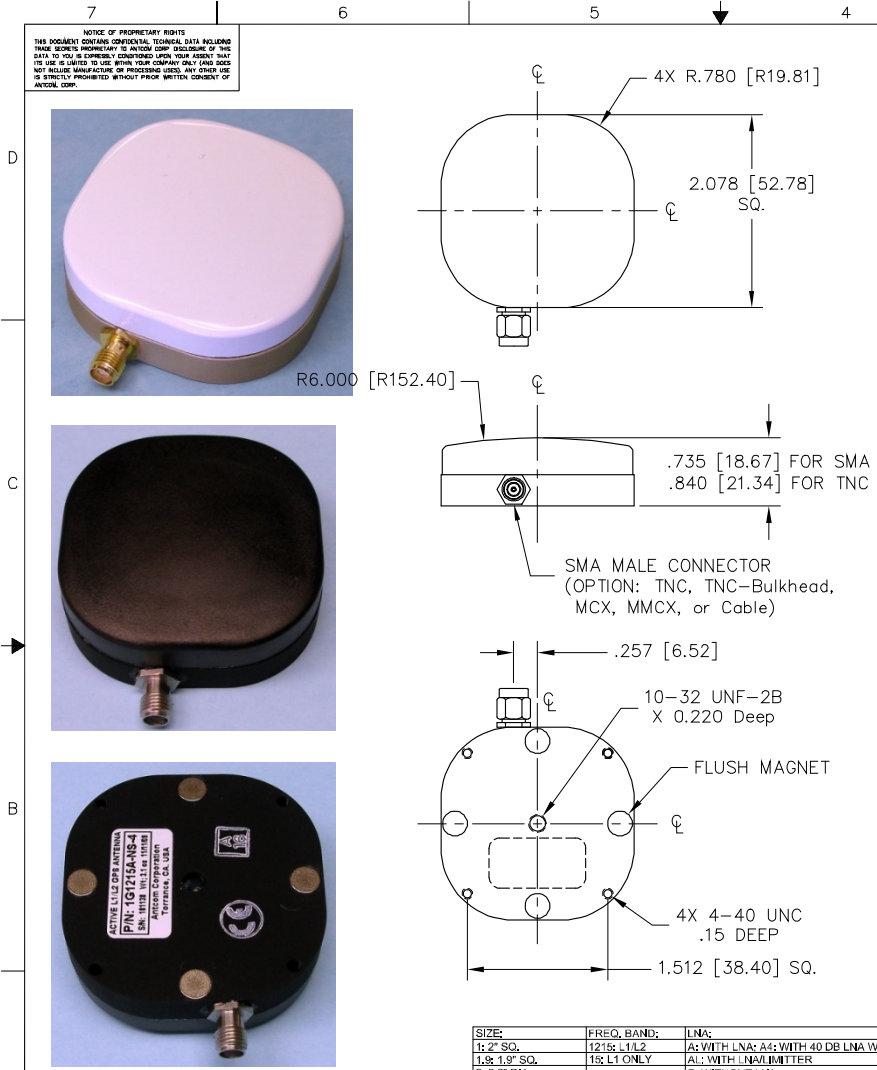
Active or Passive L1 GPS Antenna

P/N: 1G15X-MNX-X

2.0" Square, Flush Magnetic/Back Mount Side Connector Configuration



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SPECIFICATIONS		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		TNC CONNECTOR	12/07/17	D.R.

ELECTRICAL:		L1: (1575.42 ±12) MHz		
FREQUENCY:		HEMISPHERICAL		
RADIATION PATTERN:		RHCP		
POLARIZATION:		2:1		
VSWR:		50 ohms		
IMPEDANCE:		Free Space	16 in G.P.	4 ft G.P.
ANTENNA GAIN (dBic):		+ 5.0	+ 2.5	+ 3.6
@ 90 ° (ZENITH):		- 2.3	- 2.9	- 1.7
@ 10 ° Elevation:		- 0.9	- 0.5	+ 1.0
@ 20 ° Elevation:		+ 0.7	+ 1.6	+ 2.4
@ 30 ° Elevation:		> 4.2	+4.7/+2.5	> 3.6
@ 60 - 90° Elevation:		102 Deg.	107 Deg.	127 Deg.
BEAM WIDTH (3dB):		2 dB		
AXIAL RATIO:		DC GROUNDING		
LIGHTNING PROTECTION:		33 dB		
LNA GAIN (OPTIONAL):		2.4 dB		
LNA NOISE FIGURE:		+13 dBm		
LNA P1dB Out:		2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
LNA DC POWER:		-45 dB / -70 dB		
REJECTION @ (-50/+50) MHz		< -65 dB		
@ (-100/+100) MHz				

MECHANICAL:		ENVIRONMENTAL:		
SIZE:	LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]	TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]	
	HEIGHT: .735 in. [18.67 mm] FOR SMA, .840 in. [21.34 mm] FOR TNC	ALTITUDE:	70,000 ft.	
WEIGHT:	2.88 oz. (82 g)	VIBRATION:	> 30 G's	
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441F	LEAKAGE:	HERMETICALLY SEAL	
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT	FEDERAL & MILITARY SPECIFICATIONS:		
CONNECTOR:	SMA MALE (OPTION: TNC, TNC-Bulkhead, MCX, MMCX, or Cable)	DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455		
ENVIRONMENTAL:		ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100		

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215; L1-L2	A: WITH LNA; A2: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.8; 1.9" SQ.	15; L1 ONLY	A1: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and WITH LIMITER
4: MIN ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REF NO
1	ADHESIVE GASKET	12345G-3M-1G	-	-	1

P/N: 1G15A-MNSM-1

CABLE'S LENGTH:	CONNECTOR:	COLOR:
MIN: FLUSH MAGNET	SM: SMA-M; S: SMA; RS: R-SMA;	-1: GLOSS WHITE #17925 PER FED-STD-595B
N: NO MAG.	M: MCX; MM: MMCX; P: PINS	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC; TNC-Bulkhead	-3: CAMO GREEN #34084 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS: 1/16, 1/8, 3/16, 1/2, 5/8, 3/4, 7/8 DECIMALS: .015, .030, .045, .060, .075, .090, .105, .120, .135, .150, .165, .180, .195, .210, .225, .240, .255, .270, .285, .300, .315, .330, .345, .360, .375, .390, .405, .420, .435, .450, .465, .480, .495, .510, .525, .540, .555, .570, .585, .600, .615, .630, .645, .660, .675, .690, .705, .720, .735, .750, .765, .780, .795, .810, .825, .840, .855, .870, .885, .900, .915, .930, .945, .960, .975, .990, 1.000	DATE	DESIGNED BY	DRAWN	ME	EE	MFG:	QA:	APPROVED:
	May-29-01	S. HUYNH	S. HUYNH	F. TRAYN	S. HUYNH	R. ROA	L. DISONGLA	D. REID
	Dec-07-17							
	May-29-01							
	Dec-07-17							
	Dec-07-17							
	Dec-07-17							

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas