



ISO 9001:2008/FAA Approved Facility

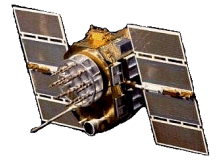
Active L1/L2 GPS Antennas, P/N: 1G1215A-XSC-X

P/N: 1G1215A-XSC-4 (Black)

P/N: 1G1215A-XSC-3 (Green)

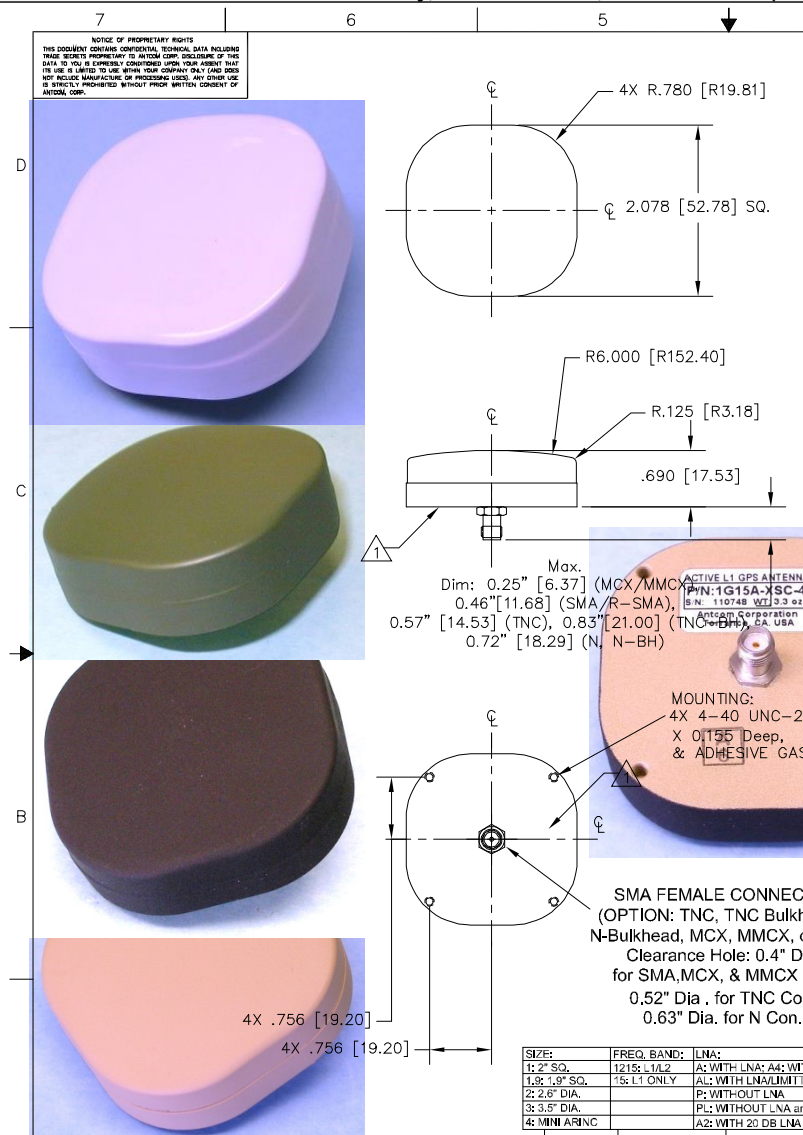
2" Square, Back Mount, Bottom Center Connector Configuration

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



ANTCOM CORPORATION . 367 Van Ness Way, #602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO ANY OTHER PARTY IS PROHIBITED. THIS USE IS LIMITED TO THE INTENT OF YOUR COMPANY ONLY AND DOES NOT INCLUDE MANUFACTURE OR REPRODUCTION. ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.



SPECIFICATIONS

ELECTRICAL:	REVISIONS					
	ZONE	REV	DESCRIPTION	DATE	APPROVED	S/LH
FREQUENCY:	L1: (1575.42 ±15) MHz			L2: (1227.60 ±15) MHz		
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP			RHCP		
VSWR:	< 1.5:1					
IMPEDANCE:	50 ohms					
ANTENNA GAIN (dBi):	Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+3.7	+4.7	+3.1	-1.7	+3.3	+4.5
@ 10 ° Elevation:	-2.9	-1.8	-1.9	-7.3	-3.8	-3.5
@ 20 ° Elevation:	-1.3	-0.3	+0.6	-6.2	-2.0	-0.8
@ 30 ° Elevation:	0.0	+1.4	+1.7	-5.2	-0.5	+1.4
@ 60 - 90 ° Elevation:	> 3.0	> 3.9	> 2.4	> -3.2	> 2.7	> 2.2
BEAM WIDTH (3dB):	108 Deg.	114 Deg.	143 Deg.	100 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB			2 dB		
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	33 dB			35 dB		
LNA NOISE FIGURE:	3.0 dB			3.0 dB		
LNA P1dB Out:	+13 dBm					
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA					
REJECTION @ (-50/+50) MHz:	-41 dB / -59 dB					
@ (-100/+100) MHz:	< -65 dB					
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
 HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 3.1 oz. (87.9 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441, With Radome matching color

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE
 (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215; L1/L2	A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.9: 1.9" SQ.	L1 ONLY	AL: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITH-OUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and THINNER (0.58" THICK)
4: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

QUANTITY REQD.	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TRM NO.
1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	1

1. 032 BRUSH FINISH ON SURFACE INDICATED
2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 1G1215A-XSC-3

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	RSC: R-SMA; SC: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N; NO MAG.	M/C: MCX; MMCX; PC: PINS	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	NC: NBC; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34088 PER FED-STD-595B
R: RIGHT ANGLE CON.	TC: TBC; TNC: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #1; FS 23446 or 33446, FED-STD-595

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .004 .000 ± .1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BEVEL EXTERNAL EDGES .002 TO .010
SMOOTH THREADS PER UNF-2-8879
DRYS ON A COMMERCE V
MACHINED SURFACES
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Center Connector
 2in Square Active
 L1/L2 GPS Antenna

DATE: 04/08/13

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas