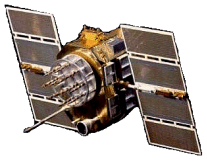
Active or Passive L1/L2 GPS Antennas, P/N: 3.75G1215A-XS-4-T (3.75"x4.0") Configurations, Compatible to Trimble's P/N: 22433-40



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

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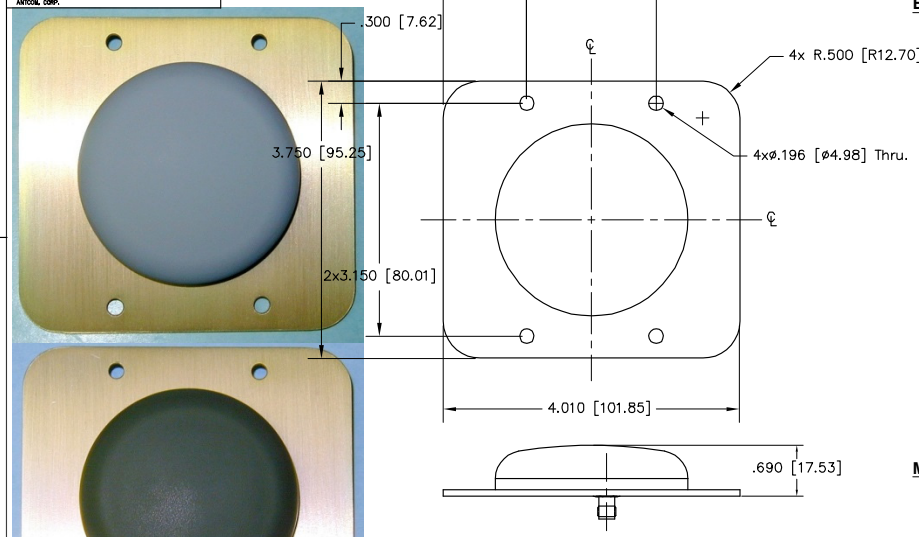


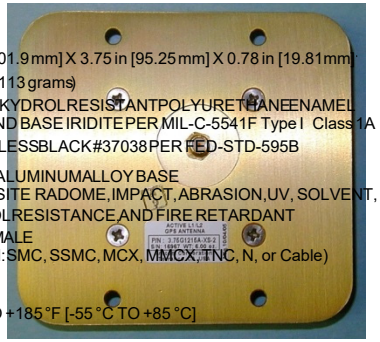
SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) MHz	
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP		RHCP	
VSWR:	< 1.5:1		< 1.5:1	
IMPEDANCE:	50 ohms		50 ohms	
ANTENNAGAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):	+ 4.7	+ 3.5	+ 3.3	+ 4.9
@ 10 ° Elevation	- 1.8	- 2.0	- 3.8	- 3.6
@ 20 ° Elevation	- 0.3	+ 0.8	- 2.0	- 0.1
@ 30 ° Elevation	+ 1.4	+ 1.8	- 0.5	- 1.8
@ 60 - 90 ° Elevation:	> 3.9	> 2.8	> 2.7	> 3.0
BEAM WIDTH (3dB):	114 Deg.	139 Deg.	106 Deg.	75 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		+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		-40 dB / -40 dB	
@ (-100/+100)MHz	< -65 dB		< -65 dB	
POWER HANDLING	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)			

MECHANICAL:

SIZE: 4.0 in. [101.9 mm] X 3.75 in [95.25 mm] X 0.78 in [19.81 mm]
WEIGHT: 4.00 oz. (113 grams)
FINISH: BLACK SKYDROL RESISTANT POLYURETHANE ENAMEL PAINT AND BASE IRIDITE PER MIL-C-5541F Type I Class 1A
COLOR: LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT
CONNECTOR: SMA FEMALE (OPTION: SMC, SSMC, MCX, MMCX, TNC, N, or Cable)



ENVIRONMENTAL:

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

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.	15: L1 ONLY	AL: WITH LNA/LIMITTER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and THINNER (HEIGHT= 0.58")
4: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

P/N: 3.75G1215A-XS-4-T

CABLE'S LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG, N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N, N-Bulkhea d	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhea d	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
			–	–	5
1			–	–	3
4	8–32 Pan Head, 1/2in long	MS 51957–45			2
1			–	–	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .010, .XXX± .005, ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILLETS R .005 TO R .030. SCREW THREADS PER MIL-S-8879. DIA'S ON A COMMON ℄ ⌀.005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH May–01–03
CAD FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
L1/L2 ACTIVE
GPS ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 3.75G1215A–XS–4–T | REV –
SCALE 1/1 | SHEET 1 OF 1