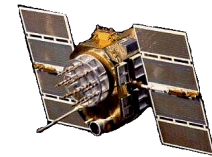




Active L1 GPS Antennas, P/N: 1.5G15A-5.75MMB-4-WMF *Rev B*

1.5" Square, Front Mount Configuration for





ISO 9001:2008/FAA Approved Facility

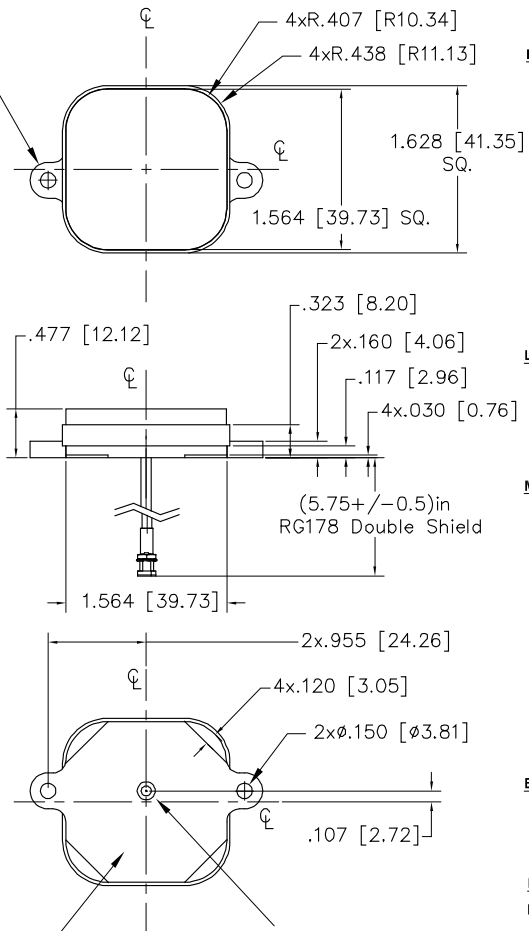
Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

ANTCOM CORPORATION . 367 Van Ness Way, Suite 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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REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	



SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 4.6	+ 0.3	+ 2.9
@ 10 ° Elevation:	- 2.5	- 3.1	- 1.8
@ 20 ° Elevation:	- 1.1	- 1.1	+ 0.7
@ 30 ° Elevation:	+ 0.5	+ 0.9	+ 1.7
@ 60 - 90° Elevation:	> 3.6	+3.1/+0.3	> 2.1
BEAM WIDTH (3dB):	103 Deg.	120 Deg.	146 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		

LNA (OPTION):

LNA GAIN:	22 dB
LNA NOISE FIGURE:	2.6 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(3 to 5.5) Volts/ 20mA
POWER HANDLING:	1 Watt CW

MECHANICAL:

SIZE: 1.57in Square
 HEIGHT= 0.477 in. [12 mm]
 WEIGHT: 1.72 oz. (48.7 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541 Type II Class 3
 COLOR: GLOSS WHITE #17925 PER FED-STD-595B
 LUSTERLESS GRAY #36320 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
 AND SKYDROL RESISTANCE, FIRE RETARDANT
 CONNECTOR: MMCX BULKHEAD CONNECTOR
 (TNC, N , OTHER CONNECTOR, OR CABLE IS OPTIONAL)

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-180D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
-	ADHESIVE GASKET	123456-3M-1.2G	-	-	-	5
-						3
-2						1

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1625: Tx/Rx	A: ACTIVE (WITH LNA)
1.5: 1.5" SQ.	25: 2493 MHz	P: WITHOUT LNA
2: 2.6" DIA.	16: 1616 MHz	
3: 3.5" DIA.	15: 1575 MHz	
4: MINIARINC		

P/N: 1.5G15A-5.75MMB-4-WMF

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; MMB; MMCX Bulkhead	GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	N: N (Optional Bulkhead)	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC (Optional Bulkhead)	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN DECIMAL FRACTIONS: DIMENSIONS ± .015 ANGLES ± 1° TOLERANCE SHOWN PER ANSI Y14.5 REMOVE ALL DIMENSIONS FROM 10 TO .010 SIZE IN THE DRAWING FOR MIL-3-8879 D13 ON A COORDINATE SYSTEM MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

1.5" SQ. FLAT MOUNT
Active L1 GPS ANTENNA

DESIGNED BY	DATE	REV	BY
DRAWN BY	1.5G15A-5.75MMB-4-WMF	3	BT
APPROVED BY	SCALE 1/1		
CAP FILE NO			

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas