



Active L1/L2 GPS & C2/L/S-Band Antenna (4 Ports),

P/N: 3B-L1L2-C2-L-S-BAND-NTTTT-4

P/N: 3B-L1L2-C2-L-S-BAND-P-NTTTT-4 (for Passive L/S-Band Version)



ISO 9001:2008/FAA Approved Facility

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

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

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

SPECIFICATIONS

ELECTRICAL:

	Tx/Rx L-Band (1650-1850) MHz	Tx/Rx S-Band (2200-2500) MHz	Tx/Rx C2-Band (1350-1390) MHz	GPS L1: (1575.42 ±15) MHz	GPS L2: (1227.60 ±15) MHz
FREQUENCY:					
RADIATION PATTERN:	Omnidirectional	Omnidirectional	Omnidirectional	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	VERTICAL	VERTICAL	VERTICAL	RHCP	RHCP
VSWR (RETURN LOSS):	< 2:1 (-10dB)	< 2:1 (-10dB)	< 2:1 (-10dB)	< 2:1 (-10dB)	< 2:1 (-10dB)
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBi):	Free Space	Free Space	Free Space	Free Space	4 ft G.P. Free Space
@ 0° (ZENITH):	0 dBi, (0° to 45°)	0 dBi, (0° to 45°)	0 dBi, (0° to 45°)	+4.7	+3.5
@ 10° Elevation:	-1.6	-2.0	-3.8	+3.3	+4.9
@ 20° Elevation:	-3.3	-3.8	-6.2	+2.0	+3.6
@ 30° Elevation:	-4.6	-6.2	-9.0	+1.4	+2.0
@ 60 - 90° Elevation:	> 3.9	> 2.8	> 2.7	+1.8	+0.5
@ 90° Elevation:	> 3.0	> 2.7	> 2.7	+1.8	+0.5
BEAM WIDTH (3dB):	Omnidirectional	Omnidirectional	Omnidirectional	114 Deg.	139 Deg.
				106 Deg.	75 Deg.
LIGHTNING PROTECTION:			DC GROUNDING		
LNA GAIN for Rx (Tx Is Passive):	22 dB	22 dB	N/A	33 dB	35 dB
LNA NOISE FIGURE for Rx:	2 dB	2 dB	N/A	3.0 dB	3.0 dB
LNA P1dB Out for Rx:	+10 dBm	+10 dBm	N/A	+13 dBm	+13 dBm
LNA DC POWER for Rx:	(2.5 to +24V)/<30mA	(2.5 to +24V)/<30mA	N/A	(2.5 to +24V)/<50mA	(2.5 to +24V)/<50mA
REJECTION @ (-80/+80) MHz:	-50 dB	-50 dB	-50 dB	-41 dB / -59 dB	-40 dB / -40 dB
ISOLATION BETWEEN PORTS:	80 dB	20 dB	80 dB	100 dB	100 dB
POWER HANDLING:	5 watts	5 watts	5 watts	10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE: WIDTH: 4.700 in. [119 mm], LENGTH: 6.044in. [154 mm], HEIGHT: 4.824 in. [123 mm]

WEIGHT: <2.5 lbs (1.13Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
GLOSS WHITE #17925 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
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE, > IP66

CONNECTOR: TNC FEMALE CONNECTORS (OPTIONAL: SMA, N, BNC, TNC)

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]

ALTITUDE: 50,000 ft.

VIBRATION: 10 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-481-F

4						2
1						1
-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REQ

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± 1° REMOVE ALL SHARP BREAKS EXTERNAL EDGES TO .015 RADIUS FILED SURFACES PER MIL-STD-883C DATS ON A COMMON & 25.000 MACHINED SURFACES 25.000	TOLERANCE 5% PER ANG 1/4% DRAWN CHECKED ENGINEER APPROVED S. HUYNH Aug-08-11	ANTCOM CORP. TORRANCE CALIFORNIA OUTLINE DRAWING C2/L/S-BAND & L1/L2 GPS OAM FGCS VIDEO/DATA LINK ANTENNA SCALE 1/1 SHEET 1 OF 1
---	--	--

NOTE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM. OVER DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY FORBIDDEN UNLESS YOU AGREE THAT YOU WILL NOT USE IT FOR YOUR COMPANY OR THAT YOU WILL NOT REPRODUCE, MANUFACTURE OR PROCESSING UNLESS, ANY OTHER USE IS EXPRESSLY PERMITTED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

P/N: OAM-PF-XT-4

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas