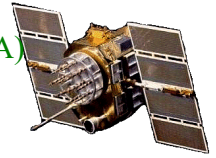




High Temperature Performance L1/L2 GPS Antenna

P/N: 6BH-3CG1215A2-XT-4 (Active L1/L2, 22 dB LNA); P/N: 6BH-3CG15A2-XT-4 (Active L1, 22 dB LNA)
 P/N: 6BH-3CG1215P-XT-4 (Passive L1/L2); P/N: 6BH-3CG15P-XT-4 (Passive L1)



Other Mounting Foot Print and Connector Options are Available

ISO 9001:2008/FAA Approved Facility 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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TOP VIEW DIMENSIONS:
 Outer diameter: 3.000 [76.20]
 Hole diameter: 4X 0.190 [4.83] THRU 0.328 [8.33] X 82°
 Inner diameter: 1.750 [44.45]
 Mounting hole diameter: 0.125 [3.18]
 Mounting hole spacing: 1.000 [25.40]

SIDE VIEW DIMENSIONS:
 Total height: 0.505 [12.83]
 Flange thickness: 0.241 [6.12]
 Base thickness: 0.130 [3.30]
 Connector: TNC FEMALE CONNECTOR

BOTTOM VIEW DIMENSIONS:
 Mounting hole diameter: 1.620 [41.15]

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1 GPS: 1575.42 ± 15.0 MHz	L2 GPS: 1227.60 ± 12 MHz
RADIATION PATTERN:	L1 GLONASS: 1598 - 1609 MHz L2 GLONASS: 1242 - 1252 MHz	
POLARIZATION:	HEMISPHERICAL RHCP	
VSWR:	< 2.0:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 In G.P.
@ 90° (ZENITH):	+ 0.4	+ 3.2
@ 10° Elevation:	- 4.6	- 4.1
@ 15° Elevation:	- 4.5	- 3.8
@ 20° Elevation:	- 4.5	- 3.5
@ 30° Elevation:	- 3.3	- 1.8
@ 40° Elevation:	- 2.5	- 0.6
@ 50° Elevation:	- 2.0	+ 0.5
@ 60° Elevation:	- 1.5	+ 1.5
@ 70° Elevation:	- 0.7	+ 2.4
@ 80° Elevation:	+ 0.1	+ 3.0
BEAM WIDTH (3dB):	100 Deg.	80 Deg.
AXIAL RATIO:	1.0 dB	3.0 dB
LIGHTNING PROTECTION:	DC GROUNDING	

LNA OPTION:

LNA GAIN: 22.0 dB
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +10 dB
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 3.00 In.[76.2 mm] DIAMETER
 HEIGHT: .505 in [12.83 mm]
 WEIGHT: 3.6 oz. (102 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441F
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: TNC FEMALE
 OPTION: MCX, QMA, SMA, SMB, SSMA, SSMB, SSMC, SSMP, MCX, OR SMP

ENVIRONMENTAL:

TEMPERATURE: -85 °F TO +1,100 °F [-65 °C TO +600 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: ~ 20K G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

P/N: 6BH-3CG1215P-XS-X

COLOR:

- 1: GLOSS WHITE #17925 PER FED-STD-595B
- 2: LUSTERLESS GRAY #36320 PER FED-STD-595B
- 3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
- 4: LUSTERLESS BLACK #37038 PER FED-STD-595B
- 5: DESERT TAN #33446 PER FED-STD-595B

1	2	3	4	5	6	7
QUANTITY	REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REF
1	-	-	-	-	-	1
2	-1	-	-	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .001 .015 .0005 0.05 ± 1°

TOLERANCE 5M PER ANS Y14.6

REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILE TO 1/8" R. SOLE THREADS PER MIL-S-8879 PART 4. COARSE V/ MACHINED SURFACES 1/16"

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

HIGH TEMPERATURE PERFORMANCE L1/L2 GPS ANTENNA

DATE: 03/01/11
 DRAWN BY: S. HUYNH
 CHECKED BY: P. TRAN
 DATE: 09-16
 DATE: 09-16
 DATE: 09-16
 DATE: 09-16

SCALE: 1/1

SHEET 1 OF 1