



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

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**SPECIFICATIONS**

ZONE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

**ELECTRICAL:**

	L1 GPS: 1575.42 ± 15.0 MHz		L2 GPS: 1227.60 ± 12 MHz	
	L1 GLONASS: 1598 - 1609 MHz		L2 GLONASS: 1242 - 1252 MHz	
FREQUENCY:				
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP			
VSWR:	< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 In G.P.	Free Space	3 In G.P.
@ 90 ° (ZENITH):	+ 0.4	+ 3.2	- 2.2	+ 0.0
@ 10 ° Elevation:	- 4.6	- 4.1	- 10.6	- 4.4
@ 15 ° Elevation:	- 4.5	- 3.8	- 8.5	- 3.5
@ 20 ° Elevation:	- 4.5	- 3.5	- 6.3	- 2.5
@ 30 ° Elevation:	- 3.3	- 1.8	- 4.0	- 1.7
@ 40 ° Elevation:	- 2.5	- 0.6	- 3.3	- 1.6
@ 50 ° Elevation:	- 2.0	+ 0.5	- 3.3	- 1.5
@ 60 ° Elevation:	- 1.5	+ 1.5	- 3.3	- 0.9
@ 70 ° Elevation:	- 0.7	+ 2.4	- 3.2	- 0.4
@ 80 ° Elevation:	+ 0.1	+ 3.0	- 3.2	- 0.1
BEAM WIDTH (3dB):	100 Deg.	80 Deg.	100 Deg.	140 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, SSM, 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. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 FRACTIONS SHALL BE IN 16ths ANGLES  
 DECIMALS SHALL BE TO 0.005 ± 1/  
 64 .005 .005 ± 1/  
 TOLERANCE SM PER ANSI Y14.5  
 DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED  
 FRACTIONS SHALL BE TO 1/64 DECIMALS SHALL BE TO 0.005  
 MACHINED SURFACES

DO NOT SCALE DRAWING

1	2	3	4	5	6	7	8	9	10
-	-	-	-	-	-	-	-	-	-
QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO	PARTS LIST			
<p>ANTCOM CORP. TORRANCE, CALIFORNIA</p> <p>HIGH TEMPERATURE PERFORMANCE L1/L2 GPS ANTENNA</p> <p>DATE: 04/09/13          DRAWN BY: S. HUYNH          CHECKED BY: P. TRAN          DATE: 08/08/16          APPROVED BY: S. HUYNH          DATE: 09/16/16</p> <p>SCALE 1/1</p> <p>SHEET 1 OF 1</p>									