



# High Temperature Performance L, S, C, X, or Ku-Band Antennas for Telemetry/Data Link Applications, P/N: 6BH-X.XX-X.XXV-XS-X-HF2 1" Tall Blade Configuration, Also Available in UHF and Other Frequencies Bands



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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**P/N: 6BH-X.XX-X.XXV-XS-X-HF2**

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY	PART # for SMA CON.	PART # for TNC CON.
1.43-1.54 GHz	6BH-1.43-1.54V-XS-X	6BH-1.43-1.54V-XT-X
1.71-1.85 GHz	6BH-1.71-1.85V-XS-X	6BH-1.71-1.85V-XT-X
1.70-2.70 GHz	6BH-1.70-2.70V-XS-X	6BH-1.70-2.70V-XT-X
2.20-2.29 GHz	6BH-2.20-2.29V-XS-X	6BH-2.20-2.29V-XT-X
4.00-6.00 GHz	6BH-4.00-6.00V-XS-X	
4.50-5.00 GHz	6BH-4.50-5.00V-XS-X	
5.40-5.90 GHz	6BH-5.40-5.90V-XS-X	
6.00-8.00 GHz	6BH-6.00-8.00V-XS-X	
8.90-9.50 GHz	6BH-8.90-9.50V-XS-X	
14.5-15.5 GHz	6BH-14.5-15.5V-XS-X	

<b>RADIATION PATTERN:</b>		OMNIDIRECTIONAL
<b>POLARIZATION:</b>		VERTICAL
<b>ANTENNA GAIN:</b>		(2 to 5) dB
<b>VSWR:</b>		< 2.0:1
<b>OUTPUT IMPEDANCE:</b>		50 Ω
<b>POWER HANDLING:</b>		300 Watts
<b>DC GROUNDING:</b>		YES (LIGHTNING PROTECTION)

**MECHANICAL:**

**SIZE:** WIDTH 0.45 in. [11.43 mm], LENGTH 3.00 in. [76.20 mm], HEIGHT 0.90 in. [22.99 mm]

**WEIGHT:** 0.75 oz. (21.2 g)

**FINISH:** YELLOW IRITE PER MIL-C-5541F, TYPE 1 CLASS 1A  
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

**CONNECTOR:** TNC FEMALE  
(OPTIONAL: SMA FEMALE CONNECTOR)

**ENVIRONMENTAL:**

**TEMPERATURE:** -85°F TO +1,100°F [-65°C TO +600°C]

**ALTITUDE:** 70,000 ft.

**VIBRATION:** >30 G's

**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

QUANTITY / REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	PLU NO
2	SCREW, MOUNTING	MS24693C274	-	-	-	1
-2	-1	-	-	-	-	-

**UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES**

FRACCTIONS	DECIMALS	ANGLES
± 1/64	± .005	± 1°
± .0005	± .0005	

**REMOVE ALL BURRS**  
BREAK LATERAL EDGES .005 TO .015  
FILE TO R .005 TO R .030  
SREW SURFACES PER MIL-S-8879  
DAYS ON A COMMON 2.00

**MACHINED SURFACES**

**DO NOT SCALE DRAWING**

**ANTCOM CORP. TORRANCE, CALIFORNIA**

**HIGH TEMPERATURE TELEMETRY & DATA LINK ANTENNA**

DATE: 3/21/12  
SCALE: 1/1  
SHEET: 1 OF 1

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED: