



# High Gain L, S, LS-Band Antenna Array, P/N: 7X4A-X-BANDV-X-XX-X (1.4-2.2) GHz, (2.2-2.5) GHz, (2.4-2.5) GHz, or (1.4 to 3.4) GHz for Video/Data link Applications



Available in SMA, TNC, or N Connector and Different Colors

ISO 9001:2008/FAA Approved Facility

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

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**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY: L-BAND  
(1400 - 2200, 2200 - 2500, 2400 - 2500, 1400 - 3400) MHz -  
(See below table for P/N)

PATTERN: DIRECTIONAL  
POLARIZATION: VERTICAL  
ANTENNA GAIN : L-Band: 6dB; S-Band: 12 dB  
BEAM WIDTH (deg): S-Band: EL = 50deg, Az= 30 deg  
L-Band: 45deg

VSWR: 2:1  
OUTPUT IMPEDANCE: 50 ohms  
POWER HANDLING: 100 watts

**LNA OPTION:**

LNA GAIN: 33 dB (P1dBout = +13 dBm)  
LNA NOISE FIGURE: 2.2 dB  
LNA VOLTAGE: (+2.5 to +24) Volts DC  
LNA DRAWING CURRENT: < 30 mA

**MECHANICAL:**

SIZE: ANTENNA: (Width= 7.18in x Width= 4.64in x Thickness= 1.96in)  
ANTENNA & TRACKING SYSTEM: 6.3in High x 7.7 Dia.

WEIGHT: 0.5 lb (227 grams), WITH AUTO TRACK: < 2.5 lbs (1.13 Kg)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
COMPOSITE RADOME, IMPACT, ABRASION,  
UV, SOLVENT, AND SKYDROL RESISTANCE,  
FIRE RETARDANT

CONNECTOR: TNC FEMALE  
(OPTION: SMB, SMA, N, MCX, MMCX, BNC, OR CABLES)

**ENVIRONMENTAL:**

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]  
ALTITUDE: 30,000 ft.  
VIBRATION: > 20 G's  
LEAKAGE: HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

TRACKING OPTION	NUMBER OF ELEMENT	FREQUENCY BAND:	S/C-BAND POL.	LNA	CONNECTOR:	COLOR:
7XA: without Auto Tacking System		S: 2.4-2.5 GHz L: 1.4-2.2 GHz	R: RHCP	P: WITHOUT	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B
7XT: with Auto Tacking System		S1: 2.2-2.5 GHz LS: 1.4-3.4 GHz	L: LHVP	LNA	N: N; NB: N-Bulkhead T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: TAN #: FS 23446 or 33446, FED-STD-595
					X: CABLE LENGTH	

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	THUM NO
8	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
		2-038-N756-75	-	-	3
			-	-	1

**7X4A-L-BANDV-A-XT-5**

NOTES: UNLESS OTHERWISE SPECIFIED:  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
FRACTIONS DECIMALS ANGLES  
± 1/64 ± .005 ± .010 ± .1°

REMOVE ALL BURRS  
BREAK EXTERNAL EDGES .005 TO .015  
RADIUS R.002 TO R.020  
DAYS ON A CANNOT BE LESS THAN 2  
MACHINED SURFACES

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE, CALIFORNIA

HIGH GAIN L, S, LS-BAND  
DIRECTIONAL DIPOLE ANTENNA ARRAY

ENGINEER: S. HUYNH  
APPROVED: Mor-19-12

DATE: 3/1/12

SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas