



ISO 9001:2008/FAA Approved Facility

### High Gain L, S, LS-Band Antenna Array

P/N: 7X4A-1.75-1.85-2.0-2.5V-P-XN-5 (1.75-1.85) GHz & (2.0-2.5) GHz

P/N: 7X4A-1.75-1.85-BANDV-XN-5 (1.75-1.85) GHz

P/N: 7X4A-2.02-2.50-BANDV-XN-5 (2.02-2.50) GHz



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

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### SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

**ELECTRICAL:**

**L-BAND**

FREQUENCY: (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

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

TRACKING OPTION	NUMBER OF ELEMENT	FREQUENCY BAND	S/C-BAND POL	LNA	CONNECTOR	COLOR
7X4A- without Auto Tracking System		S: 2.4-2.5 GHz	V: VERTICAL	A: WITH LNA	S: SMA; P: PINS	-X: WITHOUT RADOME
7X4T: with Auto Tracking System		L: 1.4-2.2 GHz	R: RHCP	P: WITHOUT LNA	I: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
		S1: 2.2-2.5 GHz	L: LHVP		N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
		LS: 1.4-3.4 GHz			T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
						-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
					X: CABLE LENGTH	-5: TAN # FS 23446 or 33446, FED-STD-595

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 FRACTIONS "DECIMALS" ANGLES ± 1/64 DECIMALS ± 1' MACHINED SURFACES

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE CALIFORNIA

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

DESIGNED: [ ] ENGINEER: S. HUYNH  
APPROVED: [ ] Mor-19-12

DATE: [ ] 3CVE1  
SCALE: 1/1

SHEET 1 OF 1