



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

REVISIONS	
ZONE	DESCRIPTION

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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	THROW
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 Tacking System		S: 2.4-2.5 GHz L: 1.4-2.2 GHz	V: VERTICAL R: RHCP	A: WITH LNA P: WITHOUT	S: SMA; P: PINS M: MCX; MM: MMCX	-X: WITHOUT RADOME -1: GLOSS WHITE #17925 PER FED-STD-595B
7X4T: 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	-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: TAN #: FS 23446 or 33446, FED-STD-595
					X: CABLE LENGTH	

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