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: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf

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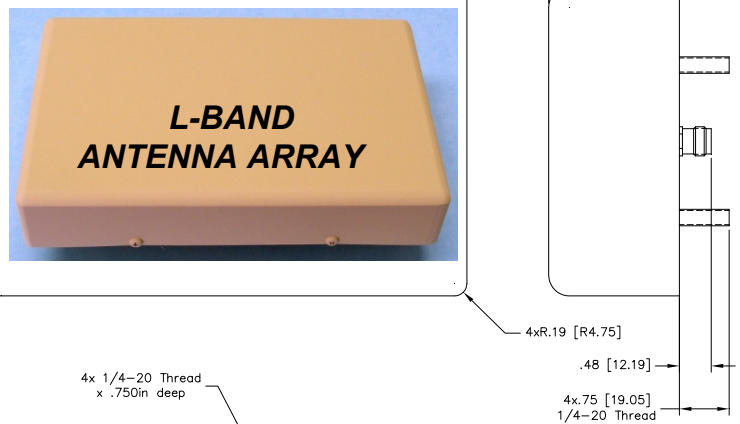

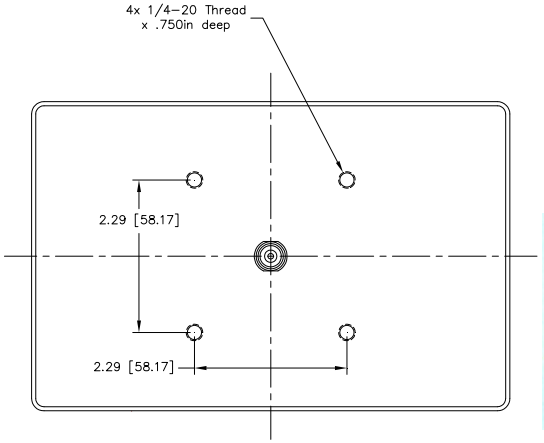

SPECIFICATIONS

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= 7.18n 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

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

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	V: VERTICAL	A: WITH LNA	S: SMA; P: PINS	-X: WITHOUT RADOME
		L: 1.4 -2.2 GHz	R: RHCP	P: WITHOUT	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
7X4T: with Auto Tacking System		S1: 2.2 -2.5 GHz	L: LHVP	LNA	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

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± 1/64 DECIMALS .XX± .020 .XXX± .010 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLETS R .005 TO .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON ℄ Ø.005 M
MACHINED SURFACES 125
DO NOT SCALE DRAWING
DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH Mar-19-12
CAD FILE NO

ANTCOM CORP. TORRANCE CALIFORNIA

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

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	7X4A-X-BANDV-X-XX-X	–

SCALE 1/1 SHEET 1 OF 1

ORIGINAL DOCUMENT WHEN STAMP IS RED

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