(4.0 -6.0) GHz High Gain C-Band Antenna Array, P/N: 7X4A-32C-BANDV-XT-5
for Video/Data link Applications : Antenna Outline Drawing

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

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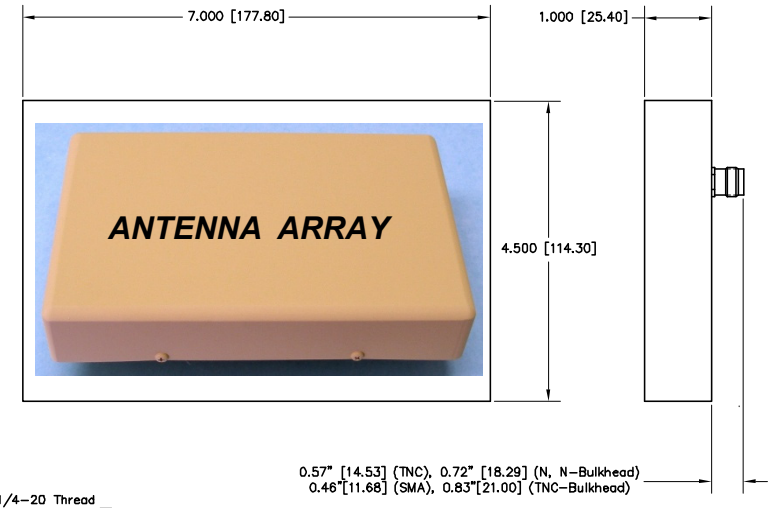

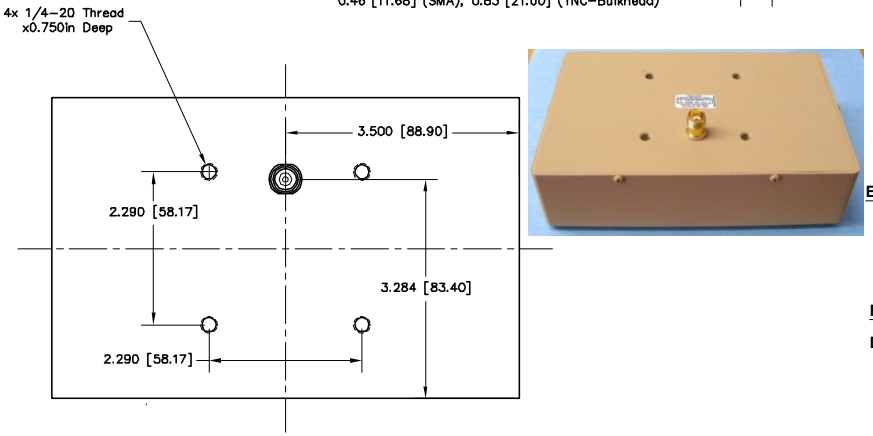

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	C-BAND
FREQUENCY:	(4000 - 6000) MHz
PATTER N:	DIRECTIONAL
POLARIZATION:	VERTICAL
ANTENNA GAIN :	16.5 dB @ 4.4 GHZ, 18.5 dB @ 5.85 GHz
BEAM WIDTH (deg):	(EL=32, Az=20) @ 4.4 GHz, (EL=26, Az=15) @ 5.85 GHz
VSWR :	1.7:1
OUTPUT IMPEDANCE:	50 ohms
POWER HANDLING:	100 watts

AUTO TRACK OPTION:

TRACKING:	360 Deg Azimuth @ (0.04 to 0.9) Deg/Se c
TRACKING MODE:	Sum/Di fferent Mode, or Beacon Signal Level: >100 mV Demodula ted DC
ACQUISITION TIME:	<35 sec @ (10 deg/sec)
DC POWER SUPPLY :	+24 Vdc/3 Amp.

MECHANICAL:

SIZE :	ANTENNA: (Width= 7in x High= 4.5in x Thickness= 1in) ANTENNA & TRACKING SYSTEM: 6.3in High x 7.7 Dia.
WEIG HT:	0.5 lb (227 grams), WITH AUTO TRACK: < 2.5 lbs (1.13 Kg)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL, AND BLACK ANODIZED
MATERIA L:	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 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 ELEMEN T	FREQUENCY BAND :	S/C-BAND POL.	CONNECTOR :	COLOR :
7X4A: without Auto Tacking System			V: VERTICAL	S: SMA; P: PINS	-X: WITHOUT RADOME
			R: RHC P	M: MCX; MM: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
7X4T: with Auto Tacking System			L: LHVP	N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
				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

7X4A-32C-BANDV-XT-5

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

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
		PARTS LIST			
5	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 .000 TO .015
FILLETS R .000 TO R .020
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ Ø".003
MACHINED SURFACES 125

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH June-18-05
CAD FILE NO
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

(4.0-6.0) GHz C-BAND DIRECTIONALDIPOLEANTENNAARRAY WITHOUT AUTO TRACK SYSTEM

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	7X4A-32C-BANDV-XT-5	-

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas