



(4.0 -6.0) GHz High Gain C-Band Antenna Array, P/N: 7X4A-32C-BANDV-XT-5

Rev A for Video/Data link Applications : Antenna Outline Drawing



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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C-BAND ANTENNA ARRAY

7X4A-32C-BANDV-XT-5

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1/4-20	Threaded holes to Stub	July-2006	S.H

ELECTRICAL:

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

AUTO TRACK OPTION:

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

MECHANICAL:

SIZE :	ANTENNA: (Width= 7.18n x Width= 4.64in x Thickness= 1in)
	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 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 REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
					3
		2-038-N756-75	-	-	1

TRACKING OPTION	NUMBER OF ELEMENT	FREQUENCY BAND	S/C-BAND POL.	CONNECTOR	COLOR
7X4A: without Auto Tracking System			V: VERTICAL R: RHCP L: LHVP	S: SMA, P: PINS M: MCX, MM: MMCX N: N: NB: N-Bulkhead T: TNC; TB: TNC- Bulkhead	-X: WITHOUT RADOME -1: GLOSS WHITE R17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVEDRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: TAN #: FS 23446 or 33446, FED-STD-595
7X4T: with Auto Tracking System					

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
FRACTIONS SHALL BE IN 16THS OF AN INCH
DECIMALS SHALL BE TO 1/1000 OF AN INCH
TOLERANCE .5M PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLET R .005 TO R .008
SROWN THREADS PER MIL-C-8879
GAGE ON A COMMON 6.0P GAGE
MACHINED SURFACES 12.5

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

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
(4.0-6.0) GHz C-BAND
DIRECTIONAL DIPOLE ANTENNA ARRAY
WITHOUT AUTO TRACK SYSTEM

DATE: June-18-05
SCALE: 1/1
SHEET 1 OF 1