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C-BAND ANTENNA ARRAY

SPECIFICATIONS

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

ELECTRICAL:

C-BAND
 FREQUENCY : (4000 - 6000) MHz
 PATTERN: 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/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	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
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.	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 #17925 PER FED-STD-595B -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
7X4T: with Auto Tracking System					

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

ANTCOM CORP. TORRANCE, CALIFORNIA

(4.0-6.0) GHz C-BAND
 DIRECTIONAL DIPOLE ANTENNA ARRAY
 WITHOUT AUTO TRACK SYSTEM

DATE: 30VE1
 SCALE: 1/1
 SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas