



High Gain L, S, LS, C-Band Antenna Array For Video/ Data Link Applications

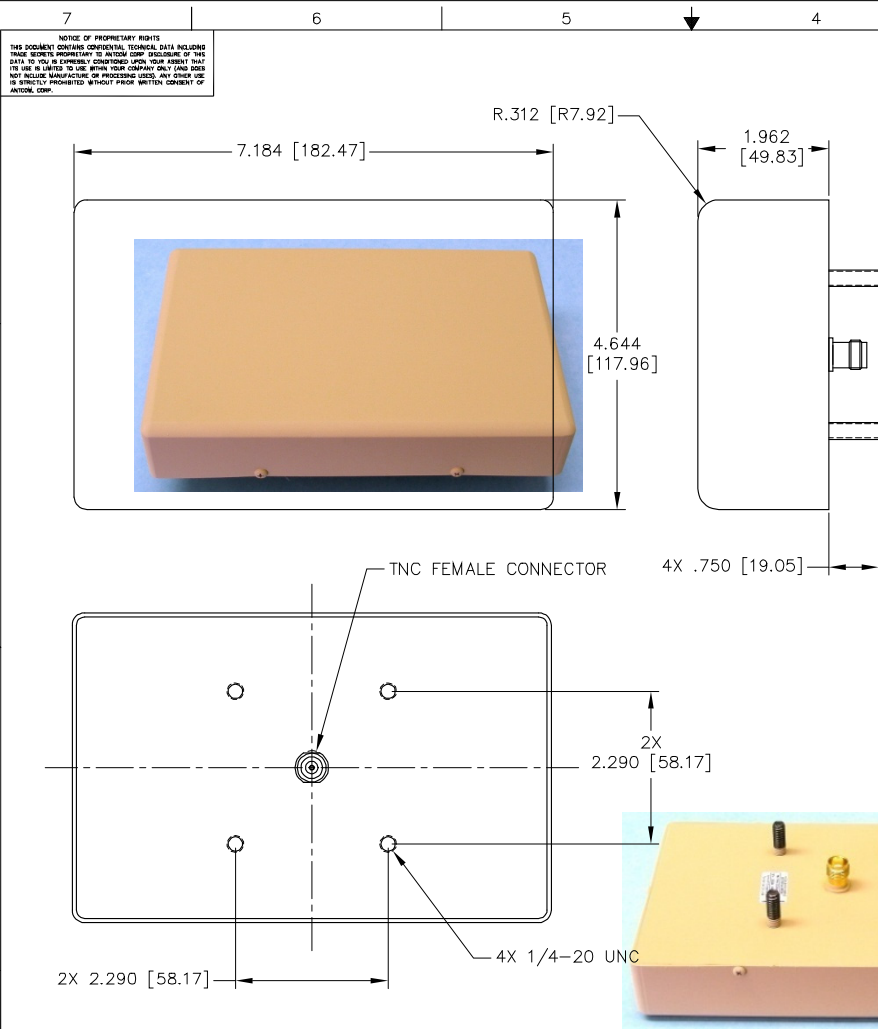
P/N: 7X4A-1.75-1.85-2.0-2.5V-P-XN-5 (1.75-1.85)/(2.0-2.5)GHz; P/N: 7X4A-1.40-2.20R-A25-XT-5-24VDC (1.40-2.20GHz, RHCP)
 P/N: 7X4A-1.75-1.85-BANDV-XN-5 (1.75-1.85)GHz; P/N: 7X4A-2.40-2.50R-A25-XT-5-24VDC (2.40-2.50GHz, RHCP)
 P/N: 7X4A-2.20-2.50-BANDV-XN-5 (2.20-2.50)GHz; P/N: 7X4A-4.40-5.00R-A20-XT-5-24VDC (4.40-5.00GHz, RHCP)



ISO 9001:2008/FAA Approved Facility

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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>



SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY: L/ S/ C-BAND (1400 - 2200), (2400 - 2500), (4400 - 5000) MHz
 PATTERN: DIRECTIONAL
 POLARIZATION: VERTICAL or RHCP or LHCP
 ANTENNA GAIN: L-Band: 6dB; S-Band: 12 dB, C-Band: 16 dB
 BEAM WIDTH (deg): L-Band: 45deg
 S-Band: EL = 50deg, Az= 30 deg
 C-Band: EL= 29deg, Az=17deg
 VSWR: 2:1
 OUTPUT IMPEDANCE: 50 ohms
 POWER HANDLING: 100 watts

LNA OPTION:

LNA GAIN: 25 dB (P1dBout = +20 dBm)
 LNA NOISE FIGURE: 2.2 dB
 LNA VOLTAGE: (+2.5 to +24) Volts DC
 LNA DRAWING CURRENT: < 30 mA

MECHANICAL:

SIZE: WIDTH: 7.18in x LENGTH: 4.64in x HEIGHT: 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

TRACKING OPTION	FREQUENCY BAND:	POLARIZATION:	LNA:	CONNECTOR:	COLOR:
7X4A: without Auto Tracking System	S: 2.4 -2.5 GHz L: 1.4 -2.2 GHz	V: VERTICAL R: RHCP	A: WITH LNA P: WITHOUT LNA	S: SMA; P: PINS N: MCX; MM: MMCX N: N; NB: N-Bulkhead T: TNC; TB: TNC- Bulkhead	-1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: CAMO GREEN #34094 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	S: 2.2 -2.5 GHz L: 1.4 -3.4 GHz C: 4.4 -5.0 GHz	L: LHVP			

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	NEW
8	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ANGLES ± 1/64 .005 .010 ± 1°		ANTCOM CORP. TORRANCE CALIFORNIA HIGH GAIN L, S, C-BAND DIRECTIONAL DIPOLE ANTENNA ARRAY
REWORK: ALL BURN BREAK EXTERNAL EDGES .005 TO .015 FILLERS IN .005 TO .010	ORIGINALLY DRAWN S. HUYNH Mar-19-12 ORIGINALLY DESIGNED S. HUYNH Mar-19-12 UPDATED S. HUYNH Aug-25-17 P. TRAM UPDATE DRAWN S. HUYNH Aug-25-17 APPROVED S. HUYNH Aug-25-17	
TOLERANCE .5% PER ANSI Y14.5	SEE TIME IN D 3CVE1 SCALE 1/1	
DO NOT SCALE DRAWING	SHEET 1 OF 1	

7X4A-1.40-2.20R-A25-XT-5-24VDC