



# UHF/L/S-Band Antenna

## P/N: 5W-0.70-2.20P-XTM-4-GN-3in Rev E

### 3in GN and 4.5in Tall x 0.5" Dia. Rod Goose Neck Configuration



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

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0.500 [12.70]

4.513 [114.62]

3.000 [76.20]

TNC MALE  
(OPTION: MMCX, MCX, SMP, SSMC, SMA, BNC, TNC, TNC Bulkhead, N)

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY (GHz):	UHF/L/S-BAND (0.70-2.20)
PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	VERTICAL
ANTENNA GAIN:	1/4 Wave
VSWR:	(2 -3):1
OUTPUT IMPEDANCE:	50 Ω
POWER HANDLING:	>50 watts (Without LNA)
LNA OPTION:	GAIN: 20 dB, NF: 4.1 dB, OP1dB: +18dB, OIP3: +33dB DC: (5 to 24) Volt @ <70mA

**MECHANICAL:**

SIZE: DIAMETER: TOP= 0.500 in [12.70 mm]  
HEIGHT: 4.513 in [114 mm] (Without Goose Neck)

WEIGHT: 1.5 oz. (42 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, BLACK ANODIZE PER MIL-A-8625F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B  
GLOSS WHITE #17925 PER FED-STD-595B  
CAMO GREEN #34094 PER FED-STD-595B  
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: TNC MALE  
(OPTION: SMA, N, BNC AND OTHERS)

**ENVIRONMENTAL:**

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]

ALTITUDE: 70,000 ft.

VIBRATION: >10 G's

LEAKAGE: HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810E

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
E		with DIRT COVER	FEB-01-11	S.H

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	CONNECTORS:	COLOR:
3P: WITH 1.75IN DIA. FLANGE & WITH-OUT Flange	0.31-0.40C (310-400) MHz	A: WITH +20 dB LNA	X: NO CABLE	S: SMA FEMALE	-1: GLOSS WHITE #17925 PER FED-STD-595B
	0.35-0.40: (350-400) MHz	P: WITHOUT LNA	M: WITH MAG. MOUNT	SM: SMA MALE	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	0.40-0.45: (400-450) MHz		R: CABLE LENGTH (IN)	T: TNC FEMALE	-3: CAMO GREEN #34094 PER FED-STD-595B
	0.81-0.95: (810-960) MHz		R: RIGHT ANGLE CON.	TM: TNC MALE	-4: Natural Back Color from Ultem 2200 Black (20% Glass)
	0.85-1.90: (850-1900) MHz			N: N FEMALE; B: BNC FEMALE	-5: DESERT TAN #33446 PER FED-STD-595B
	1.35-1.54: (1332-1540) MHz			NN: N MALE; BN: BNC MALE	
	1.70-2.20: (1700-2200) MHz				
	1.61-2.50: (1610-2500) MHz				
	2.40-2.50: (2400-2500) MHz				
	4.40-5.85: (4400-5850) MHz				
	X.XX - Y.YY: (X.XX - Y.YY) GHz				

1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	1
QUANTITY REQD	PARTS LIST					ITEM NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES						
TOLERANCES ARE FRACTIONS .XX ± .015 .XXX ± .005 ANGLES ± 1/84						
TOLERANCE SYM PER ANSI Y14.5						
REMOVE ALL BURRS						
BREAK EXTERNAL EDGES .005 TO .016						
FILLET R LOSS TO R .030						
SCREW THREADS PER MIL-S-8879						
DIAS ON A COMMON & 2P.005						
MACHINED SURFACES ✓						
DO NOT SCALE DRAWING						

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3

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NMO Connector Option is Now Available for Some Antennas