



Light Weight (0.25 – 2.20) GHz Spiral Antenna

P/N: 12X6S-0.25-0.50R-XN-4 (250-500MHz, RHCP); P/N: 12X6S-0.25-0.50L-XN-4 (250-500MHz, LHCP)  
 P/N: 12X6S-0.25-0.70R-XN-4 (250-700MHz, RHCP); P/N: 12X6S-0.25-0.96R-XN-4 (250-960MHz, RHCP)  
 P/N: 12X6S-0.25-1.90R-XN-4 (250-1900MHz, RHCP); P/N: 12X6S-0.80-2.20R-XN-4 (800-2200MHz, RHCP)



Other Frequencies, Polarization, Colors and Connectors are Available

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](mailto:antennas@antcom.com) . <http://www.antcom.com>

N FEMALE CONNECTOR

8X 10-32 UNF THRU  
.50 DEEP  
ON 6.685 RAD.

**SPECIFICATIONS**

REVISIONS	
ZONE	REV
A	1

DESCRIPTION	DATE	APPROVED
DIAMETER	07/25/17	S.H

**ELECTRICAL:**

FREQUENCY:	(250-700) MHz
PATTERN:	DIRECTIONAL
POLARIZATION:	RHCP
ANTENNA GAIN:	>0 dBic
BEAM WIDTH:	120 Deg
VSWR:	2.0:1
AXIAL RATIO:	2 dB
OUTPUT IMPEDANCE:	50 ohms
POWER HANDLING:	100 watts

**LNA OPTION (For Rx Only):**

LNA GAIN:	33 dB (P1dBout = +13 dBm)
LNA NOISE FIGURE:	2.2 dB
LNA VOLTAGE:	(+2.5 to +24) Volts DC
LNA DRAWING CURRENT:	< 30 mA

**MECHANICAL:**

SIZE:	DIA: 14.00 in [355.5 mm] HEIGHT: 6.000 in [152.40 mm]
WEIGHT:	3.6 Lbs. (1.64 Kg)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL, AND CONDUCTIVE YELLOW CHEM FILM
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	N FEMALE (OPTION: SMA, TNC, QMA, SMB)

**ENVIRONMENTAL:**

TEMPERATURE:	-76 °F TO +195 °F [-60 °C TO +90 °C]
ALTITUDE:	30,000 ft.
VIBRATION:	> 20 G's
LEAKAGE:	HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

<b>FREQUENCY BAND:</b> L1/L2: (1.575)/(1.227) GHz I: Rx/Tx Thuraya IN: Rx/Tx Inmarsat/Iridium 1.6-1.9: (1.6 - 1.9) GHz 2.2-2.3: (2.2 - 2.3) GHz 2.2-2.5: (2.2 - 2.5) GHz LS: (1.625 - 1.85)/(2.2 - 2.4) GHz XX-Y-Y: (X.XX - Y.YY) GHz	<b>POLARIZATION:</b> V: VERTICAL R: RHCP L: LHCP RL: RHCP/LHCP LR: LHCP/RHCP	<b>LNA:</b> A: ACTIVE P: PASSIVE	<b>FEMALE CONNECTOR:</b> S: SMA I: TNC N: N	<b>COLOR:</b> -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 #33446 PER FED-STD-595B
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .010 ± 1°		TOLERANCE SURF PER ANSI Y14.5		REWORK ALL SURF		BREAK EXTERNAL EDGES .005 TO .015		FILED'S 5.00 TO 9.000		SOFTEN IN BACKS PER MIL-S-8878	
DO NOT SCALE DRAWING		DATE		APPROVED		SCALE		SHEET		OF	
		D		S. HUYNH		1/1		1		1	

**ANTCOM CORP.** TORRANCE, CALIFORNIA

(0.25-0.70) GHz  
Spiral Antenna

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