



High Gain S-Band Helix Antenna

P/N: 28x1.6H2223R-P-XT-1-NB (2.2-2.3 GHz, TNC, White), P/N: 28x1.6H2425R-P-XT-1-NB (2.4-2.5 GHz, TNC, White)
 P/N: 28x1.6H2025R-P-XT-1-NB (2.0-2.5 GHz, TNC, White), P/N: 28x1.6H1625R-P-XT-1-NB (1.6-2.5 GHz, TNC, White)

Other Frequencies, LNAs, Polarizations, Connectors and Colors 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 . <http://www.antcom.com>

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SPECIFICATIONS		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	

ELECTRICAL:	
FREQUENCY (GHz):	1.6 GHz 1.7 GHz 1.8 GHz 1.9 GHz 2.0 GHz 2.1 GHz S-BAND (2.20-2.30) 2.4 GHz 2.5 GHz
ANTENNA GAIN (dBic):	1.8 dBic 9.6 dBic 11.6 dBic 11.7 dBic 13.5 dBic 15.8 dBic 15.4 dBic 14.5 dBic 12.6 dBic
RADIATION PATTERN:	DIRECTIONAL
POLARIZATION:	RHCP
VSWR:	2.0:1
IMPEDANCE:	50 ohms

MECHANICAL:	
SIZE:	TOP DIA = 1.65in [41.9 mm], BASE DIA = 3.50 in [88.90 mm] HEIGHT = 28.36in [720.3mm]
WEIGHT:	45 oz. (1.27 kg)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #38320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	TNC FEMALE (OPTION: SMA, N, BNC)

ENVIRONMENTAL:	
TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:	
DESIGN TO:	FAA TSO-C144, DO-160D, D0-228, MIL-C-5541F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

FREQUENCY (GHz):	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
2223: 2.2 - 2.3	L: TX: LHCP, RX: RHCP	A: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
2025: 2.0 - 2.5	L: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B
2425: 2.4 - 2.5	R: TX: RHCP, RX: LHCP		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CONN.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	R: RHCP				
XXYY: (X.X - Y.Y) GHz	L: LHCP				

4	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")	MS51958-59	2
-1	DESCRIPTION	PART NO	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANTCOM CORP. TORRANCE CALIFORNIA HIGH GAIN S-BAND HELIX ANTENNA
FRACTIONS	DECIMALS	
± 1/64	± .001	
TOLERANCE SURF PER ANSI Y14.5		
REMOVE ALL BURRS		
BREAK EXTERNAL EDGES .005 TO .015		
FILETS R .005 TO R1 .050		
SCREW THREADS PER MIL-C-8879		
DATA ON A COMBINATION OF		
MACHINED SURFACES		
DO NOT SCALE DRAWING		

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NMO Connector Option is Now Available for Some Antennas