



FAA Approved Facility

### 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

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



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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

7  
6  
5  
4  
3  
2  
1

D  
C  
B  
A

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	REV
4	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")		MS51958-59	2
-1	DESCRIPTION			1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ARE:	
FRACTIONS	DECIMALS	ANGLES	
± 1/64	± .001	± 1°	
TOLERANCE SURF PER ANSI Y14.5			
REMOVE ALL BURRS	BREAK EXTERNAL EDGES .005 TO .015	FILETS R .005 TO R1.000	SCREW THREADS PER MIL-C-8879
DATA ON A COMBINATION OF			
MACHINED SURFACES	125		
DO NOT SCALE DRAWING			

ANTCOM CORP. TORRANCE CALIFORNIA	DESIGNED BY: S. HUYNH July-01-13
	ORIGINALLY DESIGNED: S. HUYNH July-01-13
	UPDATED: S. HUYNH April-13-15
	UPDATE DRAWN: P. TRAN April-13-15
	APPROVED: S. HUYNH April-13-15
DATE: D 30VE1	QUANTITY: 28x1.6H2223R-P-XT-1-NB
SCALE: 1/1	SHEET: 1 OF 1

P/N: 28x1.6H2223R-P-XT-1-NB

NMO Connector is Now Available for Some Antennas