

Helical Antennas

The HRP Series of high gain, low VSWR helical antennas are ideal for MUOS or UHF SATCOM communications applications. This antenna series meets the requirements of a fully militarized high-gain base station SATCOM antenna. The simple design, high directivity, low wind sail area, and wide bandwidth are some of the advantages of helical antennas. The antennas are available in right-hand circular polarized (RHCP) and left-hand circular polarization (LHCP) configurations. These antennas have a very rugged design and operate efficiently in extreme weather conditions. The antenna can be mounted on the ground, rooftops, or similar locations.

Optional accessories such as a radome and mast are also available. If required, the lightweight fiberglass radome seals the antenna. The adjustable aluminum mast included in the antenna kit is used to set the antenna elevation (0° to 90°) and azimuth (0° to 360°).

Antenna Type Helical

Application Military Communications

Frequency Band UHF (0.3 to 6 GHz)

Polarization Left-hand circular or right-hand circular

Specifications:

	HRP-240	HRP-232	HRP-338
Frequency	225 to 400 MHz	240 to 325 MHz	300 to 380 MHz
Gain	8 to 12 dBic	10 dBic	10 dBic
Polarization	RHCP or LHCP	RHCP or LHCP	RHCP or LHCP
VSWR	1.5:1 typical	1.5:1	1.5:1
Axial Ratio	< 3 dB	< 3 dB	< 3 dB
Beamwidth	50°	50 to 55°	50 to 55°
Operating Temperature	-40° to +55°	-40° to +55°	-40° to +55°
Power Handling	200 W CW	200 W CW	200 W CW
Wind Load	80 mph	80 mph	80 mph
Connector	Type-N Female	Type-N Female	Type-N Female
Antenna Dimensions	84" x 40"	62" x 40"	51" x 36"
Weight	34 lbs (15.5 kg)	29 lbs (13.2 kg)	24 lbs (10.9 kg)

Features

- Fixed-site communications antennas
- UHF SATCOM/MUOS frequency ranges
- Rugged design
- Various mounting options available
- Made in the USA

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