

communications solutions

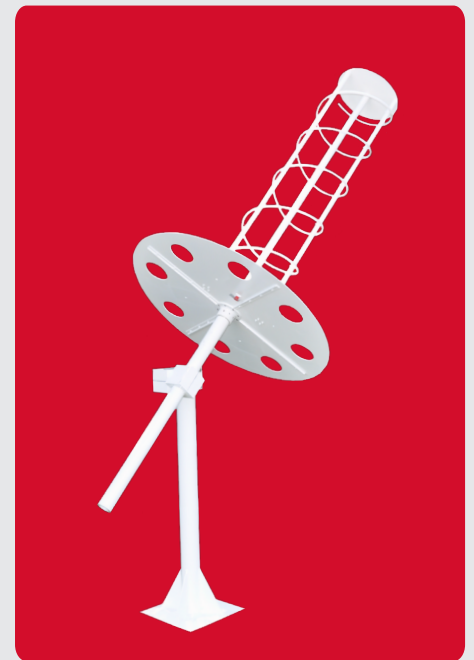
HRP Series

The HRP family 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 Circularly 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, on rooftops, or in any location. Optional accessories such as radome and mast are also available. If required, the lightweight fiberglass radome seals the antenna hermetically. 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 - 6 GHz)
Polarization	Left Hand Circular or Right Hand Circular

	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-Type Female	N-Type Female	N-Type Female
Antenna Dimension	84" x 40"	62" x 40"	51" x 36"
Weight	34 lb (15.5 kg)	29 lb (13.2 kg)	24 lb (10.9 kg)



HRP-232 Model

FEATURES

- Fixed site Communication Antennas
- Variety of frequency ranges
- Rugged design
- Various mounting options available
- Made in the USA

Revised November 12, 2021