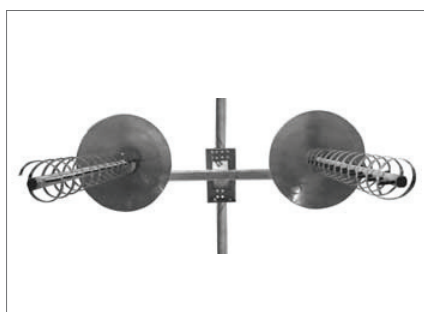


# WH 14-69/HP

## Helical Antenna - Horizontal Pair



### Product Features

#### WH14-69/HP

##### Description

The Wade Helical Antenna is circularly polarized for CATV Off-Air reception. The WH14-69 covers the entire UHF band (470-806 MHz), channels 14 through 69. Available as a single antenna or a customized antenna array. All material is hot dip galvanized steel or aluminum for superior quality and longevity.

#### ELECTRICAL SPECIFICATIONS

MODEL		WH14-69/HP
FREQUENCY (MHZ)		470-806
GAIN (dBic)		20
GAIN (dBi)		17
NUMBER OF OUTPUTS		1
NUMBER OF TURNS		12
VSWR	MAXIMUM	1.9
	TYPICAL	1.4
HPBW	HORIZONTAL	15
	VERTICAL	28
POLARIZATION		Circular
1 <sup>ST</sup> SIDELobe SUPPRESSION (dB)		18
F/B RATIO		>26
CROSS POLARIZATION SUPPRESSION		20dB
IMPEDANCE (Ohm)		75
STD. CONNECTOR		F
MAXIMUM INPUT POWER		25 W
TEMPURATURE (C)		-40 to +70
F/B RATIO (dB)		>26

#### MECHANICAL SPECIFICATIONS

MODEL		WH14-69/HP
OVERALL LENGTH (in)		65
HELIX DIAMETER (in)		5.875
GROUND PLANE DIAMETER		24
STUB LENGTH (in)		6.5
STUB OD (in)*		1.5
INSTALLED WEIGHT (lbs)		65
MOUNTING OPTION		Mast
MAST OD (in)		2.5

#### WIND LOADING

MODEL		WH14-69/HP
WIND AREA (Sq. ft.)	NO ICE	2.32
	1/2 RADIAL ICE	5.20
WIND LOAD (ft. lbs)	NO ICE	202
	1/2 RADIAL ICE	132
SURVIVAL WIND SPEED (no ice) (mph)		180

\* Wind Speed = 100 MPH at sea level with 100% Humidity at 70°F.

\*\* Wind Speed = 50 MPH at sea level with 100% Humidity at 0°F.

\*\*\* Maximum Wind Speed at sea level with 100% Humidity at 70°F. Safety Factor of 1.65 included.