

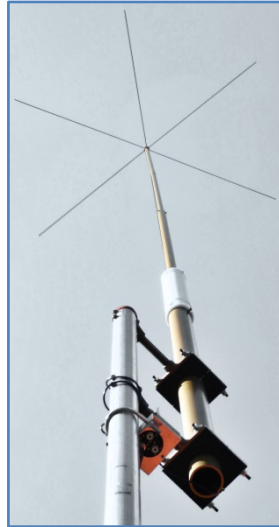


PRODUCT INFORMATION SHEET

Component AM Radio High Performance Antenna

Part Number HPR.0990

Images



The heavy-duty HPR.0990 Antenna Coil can handle hundreds of watts efficiently.



Accessory: M990 Insulators with Stand-Off Mounts

Description

This high performance antenna offers a communication professional the ability to establish an AM broadcast signal more efficiently than before possible with an antenna of similar design and price point. Its 50-ohm resonant design requires only a matching transformer at its feed-point, eliminating the need for an antenna tuner (matching network). Designed to operate in conjunction with a horizontal groundplane, this antenna is compact and light-weight, making it easy to ship, set up and install. It may be assembled in minutes, if required, for an emergency application.

- Power: up to 300 watts carrier (1000-1700 kHz); reduced power below 1000 kHz.
- Frequency range: 470 kHz to 1800 kHz.
- Impedence: 10-20 ohms (typically) with 50' tip height and 50' radius groundplane.
- Mounting Format: Top of support structure [tower, mast or pole]. Lower 36" of antenna base clamps in insulator mounts which can be attached to a vertical support with a round or flat surface.
- Type: center-loaded, bottom-fed vertical, whip-type antenna with adjustable capacitive hat and adjustable vertical tuning section . Omni directional. Anodized aluminum finish. Guying ring included.
- Radiation efficiency: 54 mV/m/km; (530 kHz) to 175 mV/m/km (1700 kHz). Ref 1KW: 50' tip height above ground on a 20' support pole or tower with 50' 32-element groundplane.
- Bandwidth varies with frequency (3:1 SWR): 530 kHz: 6 kHz. 1700 kHz: greater than 10 kHz.

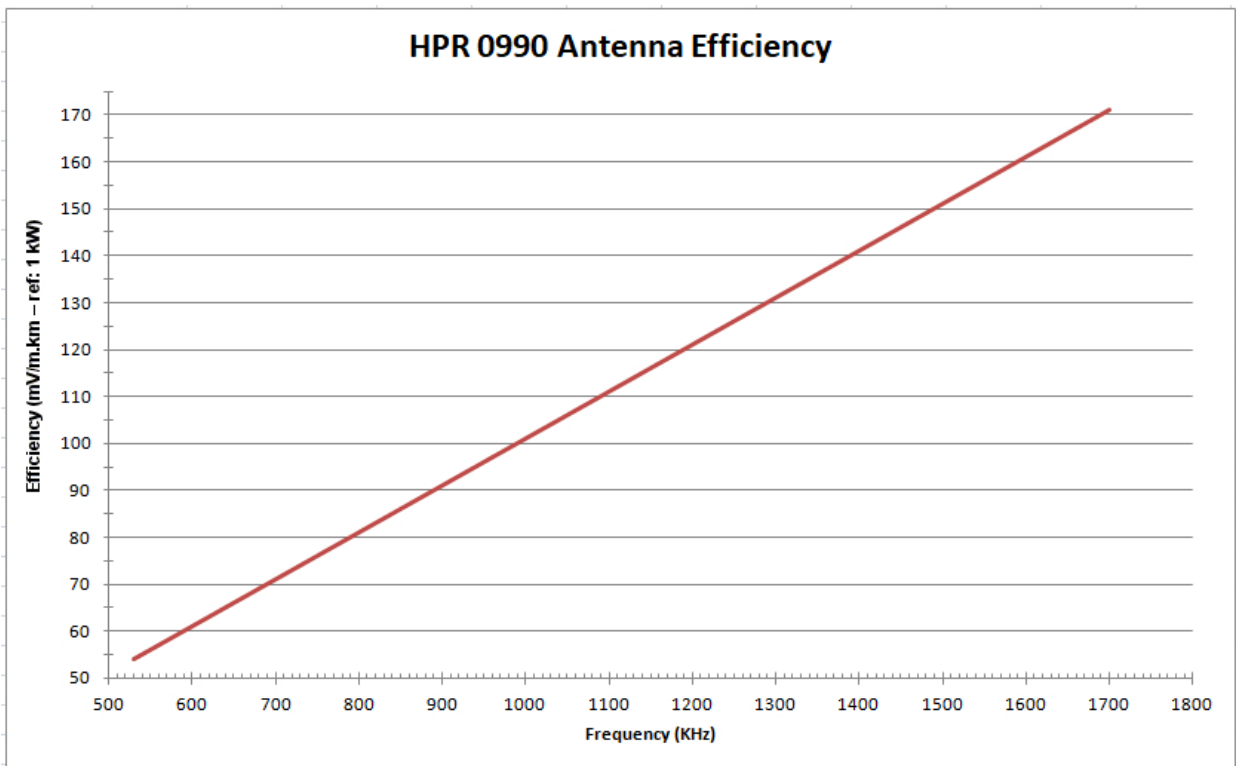
All products described are subject to availability based on manufacturing capacity and shipping dates. While every effort has been made to ensure the accuracy of all information, ISS does not accept liability for any errors or omissions and reserves the right to change information as needed.

© 2019 Information Station Specialists, Inc. All rights reserved.



PRODUCT INFORMATION SHEET

- Temperature endurance: -40°C to 85°C.
- Wind endurance: greater than 100 MPH, unguyed. Greater than 140 MPH with the addition of guy lines (nonconductive only).
- Weight of the complete antenna varies with frequency. 30.5 lbs nominal. Mounts with insulators (2): 5.5 lbs total.
- Overall assembly: five sections plus capacitive hat. Length varies with frequency and tip extension. Typical: 32'. Includes assembly hardware. Outside diameter of vertical sections taper from 2.5" (lower) to 1.0" (upper). Capacitive hat spoke length varies with frequency.
- Recommended separation from buildings and structures: 100' or equal to the height of the structure, whichever is greater.
- Required: stand-off mounts with insulators. Options: matching transformer, lightning arrestor, weatherproof cabinets, coaxial cable with connectors, guying kit, support poles and masts, roof stands, fully assembled portable groundplanes.
- RF exposure separation: 1 meter minimum recommended for both occupational and controlled environments.



All products described are subject to availability based on manufacturing capacity and shipping dates. While every effort has been made to ensure the accuracy of all information, ISS does not accept liability for any errors or omissions and reserves the right to change information as needed.

© 2019 Information Station Specialists, Inc. All rights reserved.