

Antenna/VHF Band Antenna

VHF Slot Antenna

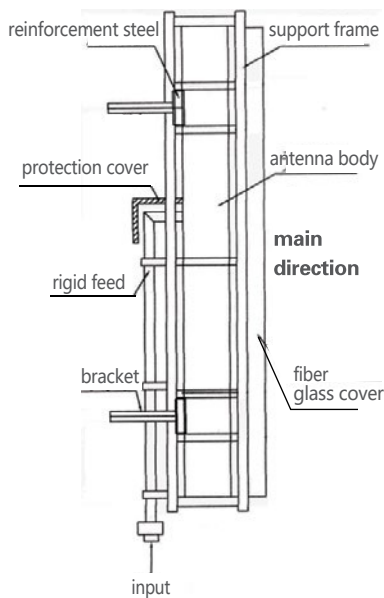
Product model: GME9A-FXV

Features:

- Low loss, high efficiency, high gain, small volume, light in weight, small wind load, good sealing.
- Easy for installation, reduce a lot maintenance cost.
- Stainless steel structure, copper inner conductor, glass fiber cover.

VHF slot antenna is designed for VHF TV/radio transmission. It consists of radiation cavity installed inside stainless structure. Stainless frame has installation and fastening function to guarantee radiation cavity stability, and also has radiation and anti-lighting function. Cavity is made from aluminum alloy, the four radiation units form rectangular aluminum resonant cavity. Antenna can be installed on top or side face of tower. If installed on side face, please consider tower width or mast diameter so as to get good horizontal radiation. Generally as long VHF wavelength, mast diameter gives little influence. The zero-filled interpolation and beam tilt are considered thoroughly when designing cavity. Tilt angle is 0.5 degree; antenna gain is 11db, horizontal radiation is omni directional. If larger gain wanted, two or more antennas can be overlaid vertically and select properly line converter and length of transmission line of Internode coaxial feeder to better resolve zero-filled interpolation and beam tilt problem. Horizontal diagram of VHF slot antenna basically is circular.

Antenna cavity and stainless frame constitute VHF slot antenna. Because of larger cavity easily deformed, stainless frame can assure of radiation cavity hardness and stability. Stainless frame can directly be fastened on side face of tower, not change the shape of cavity.



Specification :

Description	Specifications
Model	GME9A-FXV
Power	Max 40KW
Bandwidth	10Mhz
Out-of-roundness of horizontal field	$\leq \pm 3\text{db}$
SWR	≤ 1.08
Gain	4 slots 9dbd, 8 slots 12dbd
Beam tilt	4 slots 0.5° , 8 slots 1°
The first zero fill	$> 10\%$
Connector	Decided by feeder
Weight	40kg
Wind speed limit	200km/h
Lightning protection	DC grounded
Down-tilt method	Electrical

Directivity diagram :

