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| **VHF EXPOSED DIPOLES** | **Logo  Description automatically generated 138-174 MHz** |

**F-33031-D**

The F-33031-D is a Wide Band Omnidirectional Antenna specifically designed for trunked multicoupled and X-pass systems applications. This antenna is extremely rugged and is well suited for use in severe environmental conditions. This antenna is a Low Intermod design that incorporates a minimum of moveable joints in its construction and replaces standard castings with heavy duty welded joints.

* The F-33031-D has internal cabling design and is not field adjustable.
* Passive Intermodulation Specification is measured in the third order intermodulation products, using two 25 watts (+44 dBm) Carriers.

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| **Electrical Specifications**  | **F-33031-D** |
| Frequency Range, MHz  | 138-174 |
| Nominal Gain, dBd | 6 |
| Number of Dipoles | 8 |
| Bandwidth 1.5:1 VSWR, MHz | 36 |
| Polarization | Vertical |
| Pattern | Omni |
| Power Rating, Watts | 500 |
| Nominal Impedance, Ohms | 50 |
| Lightning Protection | DC Ground |
| Passive Intermodulation | -107 dBm (-150 dBc) |
| Standard Termination | 7/16 DIN male connector attached to end of 118 in (3000 mm) RG-214 Cable |
| **Mechanical Specifications**  | **F-33031-D** |
| Length, in (mm) | 246 (6248) |
| Width (1/2 Wave Spacing), in (mm) | 30 (762) |
| Weight, lbs. (kg) | 140 (63.5) |
| Weight with 1,57" (40mm) ice, lbs (kg)  | 604 (274) |
| Lateral Thrust lb (N) | 665 (2955) |
| Bending moment at top clamp lb-ft (N-m) | 4891 (6637) |
| Wind Zone | 600 Pa |
| Material | Aluminum 6061-T6 |
| Projected Area, ft² (m²) | 11,1 (1,03) |
| Mounting Information Mast O.D. (mm)  | Mast 3,5" (88.9 mm) O.D. |

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| **VHF EXPOSED DIPOLE**  | **138-174 MHz** |



Horizontal (Azimuth) Radiation Pattern

Vertical (Elevation) Radiation Pattern