JEM-2438MFC
Low Profile MFC Antenna

Description

This state-of-the-art low-profile antenna is designed for 2.5” cavity depth, flush mount in non-ferromagnetic material. The Magnetic Flux Channel (MFC) antenna is designed using high hesitivity, low-loss material.

This groundbreaking antenna technology is combined with a JEM’s novel beamforming technology to provide AS-3916 performance in SINCgars band, exceptional UHF LOS gain, and UHF UFO/MUOS SATCOM capabilities in a 2.5” thick low-profile form-factor. All of JEM’s MFC antennas, including the JEM-2438MFC, are based on SBIR technology. More information about JEM’s SBIR work can be provided upon request.
## Specifications

### Electrical

<table>
<thead>
<tr>
<th>Frequency Bands</th>
<th>Options</th>
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</thead>
<tbody>
<tr>
<td>30 – 175 MHz, J0 LOS</td>
<td>Option 1</td>
</tr>
<tr>
<td>175 – 512 MHz, J1 LOS</td>
<td></td>
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<tr>
<td>240 – 380 MHz, J2 UHF SATCOM MUOS</td>
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<td>30 – 512 MHz, J1 LOS</td>
<td>Option 2</td>
</tr>
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<td></td>
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</tbody>
</table>

**Patterns**

- J0, Vertical Polarization, omni-directional
- J1, Vertical Polarization, omni-directional
- J2, Right-Hand Circular Polarization, zenith

**VSWR**

- J1: < 3.0
- J2: < 2.0

**Gain**

- J0/J1: -25 to +2 dBiL
- J2: 0 to 2.5 dBiC

**Connector**

- J0: TNC Female
- J1: TNC Female
- J2: Type N Female

**Ground Plane**

Ground Plane Independent

**Power**

125 Watts CW (simultaneously)

### Mechanical

**Weight**

40 lbs

**Dimensions**

24” x 24” x 2.5” Flush Flange

**Finish**

MIL-DTL-53039, Type IV, Chemical Agent Resistant Coating