

JEM-2438MFC

Low-Profile MFC Antenna



DESCRIPTION

The JEM-2438 is a state-of-the-art low-profile antenna 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.



Option 1: JEM-2438MFC w/ Low-Profile Radome



Option 2: JEM-2438MFC w/ Flush Radome

SPECIFICATIONS

ELECTRICAL

Frequency Bands

Option 1

- J0: 30 MHz to 175 MHz, LOS
- J1: 175 MHz to 512 MHz, LOS
- J2: 240 MHz to 380 MHz, UHF SATCOM

Option 2

- J1: 30 MHz to 512 MHz, LOS
- J2: 240 MHz to 380 MHz, UHF SATCOM

VSWR

- J1: < 3.0
- J2: < 2.0

Patterns

- J0/ J1: Vertical Polarization, Omni-Directional
- J2: Right Hand Circular Polarization, Zenith

Power

125+ Watts CW, Simultaneously

Gain

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

Connector

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

Ground Plane

Ground Plane Independent

MECHANICAL

Weight

40 lbs (13.5 kg)

Low-Profile Dim.

24" Diameter x 2.5" H (Flush Flange)
(61 cm Diameter x 6.35 H)

Flush Dim.

24" L x 24" W x 2.5" H (Flush Flange)
(61 cm L x 61 cm W x 6.35 cm H)

Mounting

Mounting Materials Optional

Finish (Default)

MIL-DTL-53039, Type IV, CARC