


# FM-SHARK-DUAL

 Fluidmesh is now part of Cisco.

## Bidirectional antenna for Train to Ground communication

### FEATURES

- Dual feed, dual slant  $\pm 45^\circ$ , linear polarization
- Designed for metallic or non-metallic roof mounting, no ground plane required
- Extremely rugged purpose built for rail and metro applications
- Symmetrical patterns, maintains same pattern performance over each polarization
- High port-to-port performance correlation

### CUSTOM CONFIGURATIONS

- Painting or anodizing available
- Custom mounting plate and bolt pattern available
- Custom connector location available
- Dual H/V polarization available
- Circular polarization available
- Other connector options available



### RAIL CERTIFICATION

Meets EN50155 requirements

### ELECTRICAL SPECIFICATIONS

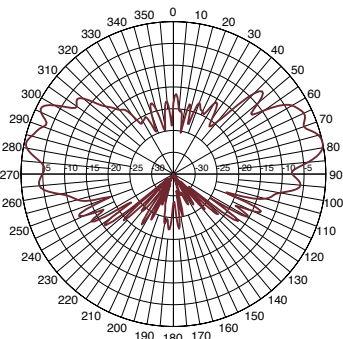
Nominal Impedance	50 ohms
Polarization	Dual Slant $45^\circ$ , Linear
Bandwidth	4.9-5.9 GHz
Gain	10-13 dBi*
VSWR	< 2.0 : 1

### ELECTRICAL SPECIFICATIONS

Free Space, Non-Metallic Ground Plane	H-Plane Beamwidth	$42^\circ$
	E-Plane Beamwidth	$28^\circ$
Ground Plane Mounted Performance	H-Plane Beamwidth	$39^\circ$
	E-Plane Beamwidth	$21^\circ$
	Port-to-Port Isolation	>22 dB

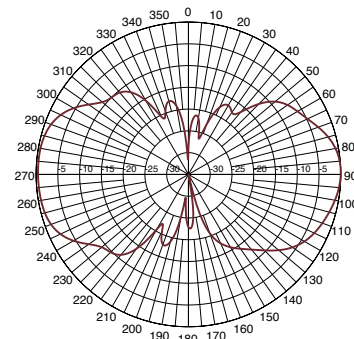
### MECHANICAL SPECIFICATIONS

Dimensions	8.3 x 5.5 x 3.3 inches (210 x 140 x 85 mm)
Weight	8.5 lbs
Connector Options	QMA Female
IP rating	IP 67 - following installation instructions



**ELEVATION PATTERN**

NOTE: Radiation patterns reflect ground mounting.



**AZIMUTH PATTERN**

\* Depending on the installation and metal plane dimension

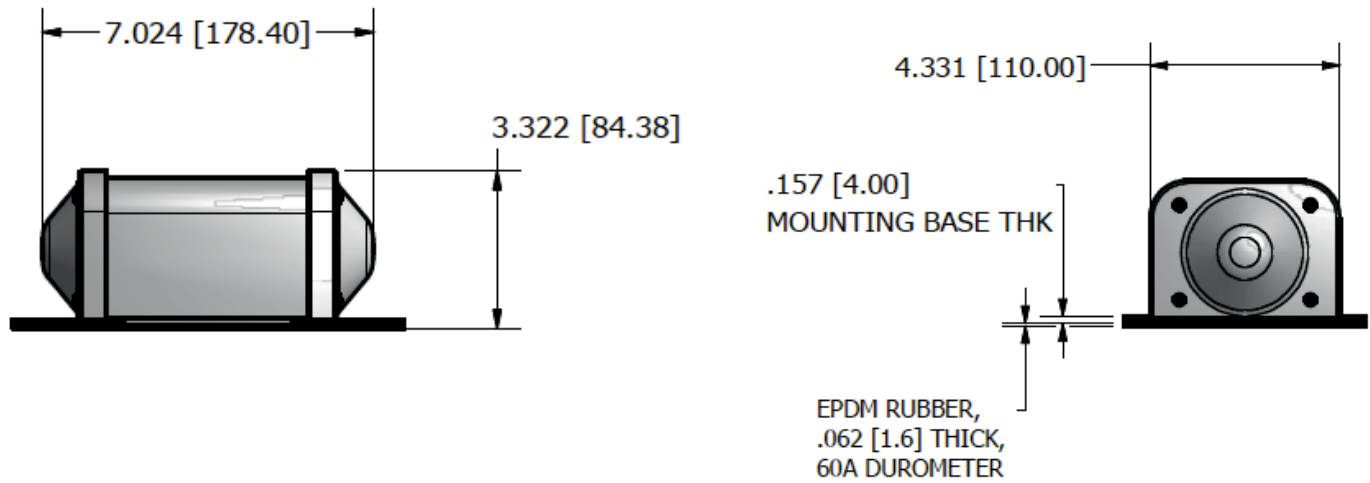
# FM-SHARK-DUAL

 Fluidmesh is now part of Cisco.

## Bidirectional antenna for Train to Ground communication.

### ANTENNA DIMENSIONS (inches [mm])

#### Front and side view



#### Bottom view

