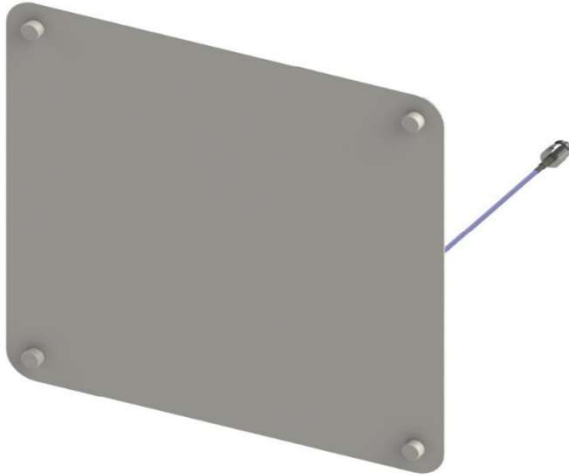




Installed Antenna

## Features:

- 450-490 MHz UHF operation
- Aesthetically pleasing:
  - 1.5mm (0.060 inch) thickness to ceiling
- VSWR < 2:1
- Optimized To Low-Frequency In-Building Environments
- Size 15.75 x 15.75 inch (400 x 400 mm)

## Applications:

- IN-building repeater systems
- Police, Fire, Government
- Low profile ceiling mounting
- Enhanced for In-Building:
  - Multi-floor coverage
  - Voids the nulls of traditional dipoles

All dimensions are in mm / inches

Issue: 1713

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Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



Series: V-Thinity

**Description:** In Building Public Safety  
Antenna 450-490 MHz**PART NUMBER: PSIBUHF****ELECTRICAL SPECIFICATIONS**

|                    |             |
|--------------------|-------------|
| Frequency          | 450-490MHz  |
| Nominal Impedance  | 50 $\Omega$ |
| VSWR *             | 2:1         |
| Peak Gain *        | 4.5 dBi     |
| Total Efficiency * | 70 %        |
| Power Withstand    | 6 watts     |

\* See test setup definition

**MECHANICAL SPECIFICATIONS**

|                           |                             |
|---------------------------|-----------------------------|
| Antenna Color / Material  | White                       |
| Weight                    | 700g (TBC)                  |
| Connector Type            | N Female                    |
| Cable Type                | RG402 Ø 4mm / 0.16"         |
| Cable length              | 500mm / 19.7"               |
| Cable retention: Pull off | 30 N                        |
| Fixing system             | 4pcs M6 hex slot bolt & nut |

**ENVIRONMENTAL SPECIFICATIONS**

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Storage temperature | MIL STD 801G: 24h at 85C and 24h at -40C                                                                |
| Temperature shock   | MIL STD 810G: Method 503.5, -40 for 1 hr to<br>+85C for 1 hr @ 15 deg.C/min rate of change;<br>3 cycles |
| Humidity            | MIL STD 810G: 24h at 60C and 95%RH                                                                      |
| Vibration           | MIL STD 810G: 514.6 C-II                                                                                |

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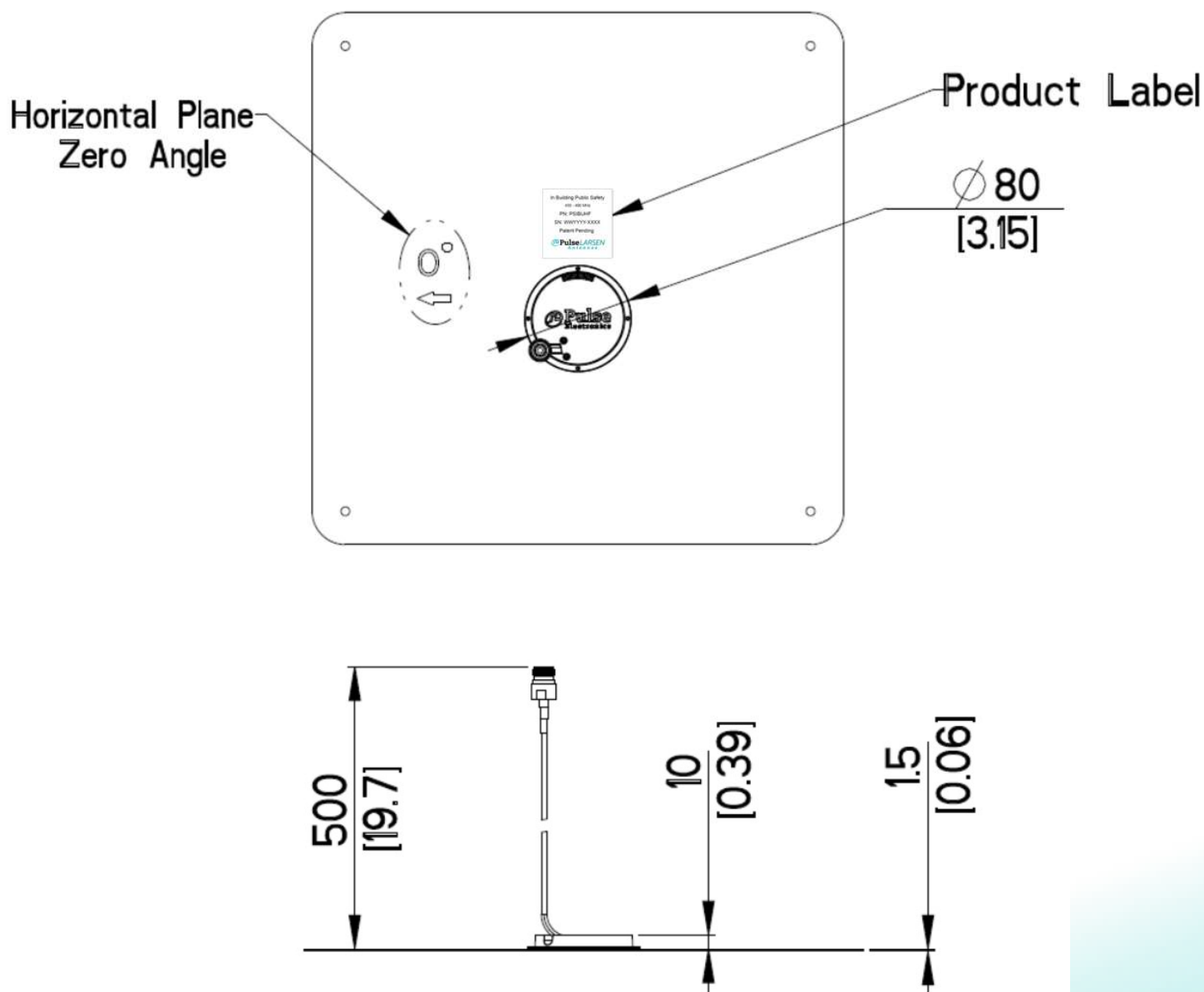
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Series: V-Thinity

**Description:** In Building Public Safety  
Antenna 450-490 MHz

**PART NUMBER: PSIBUHF**

**MECHANICAL DRAWING**



Issue: 1713

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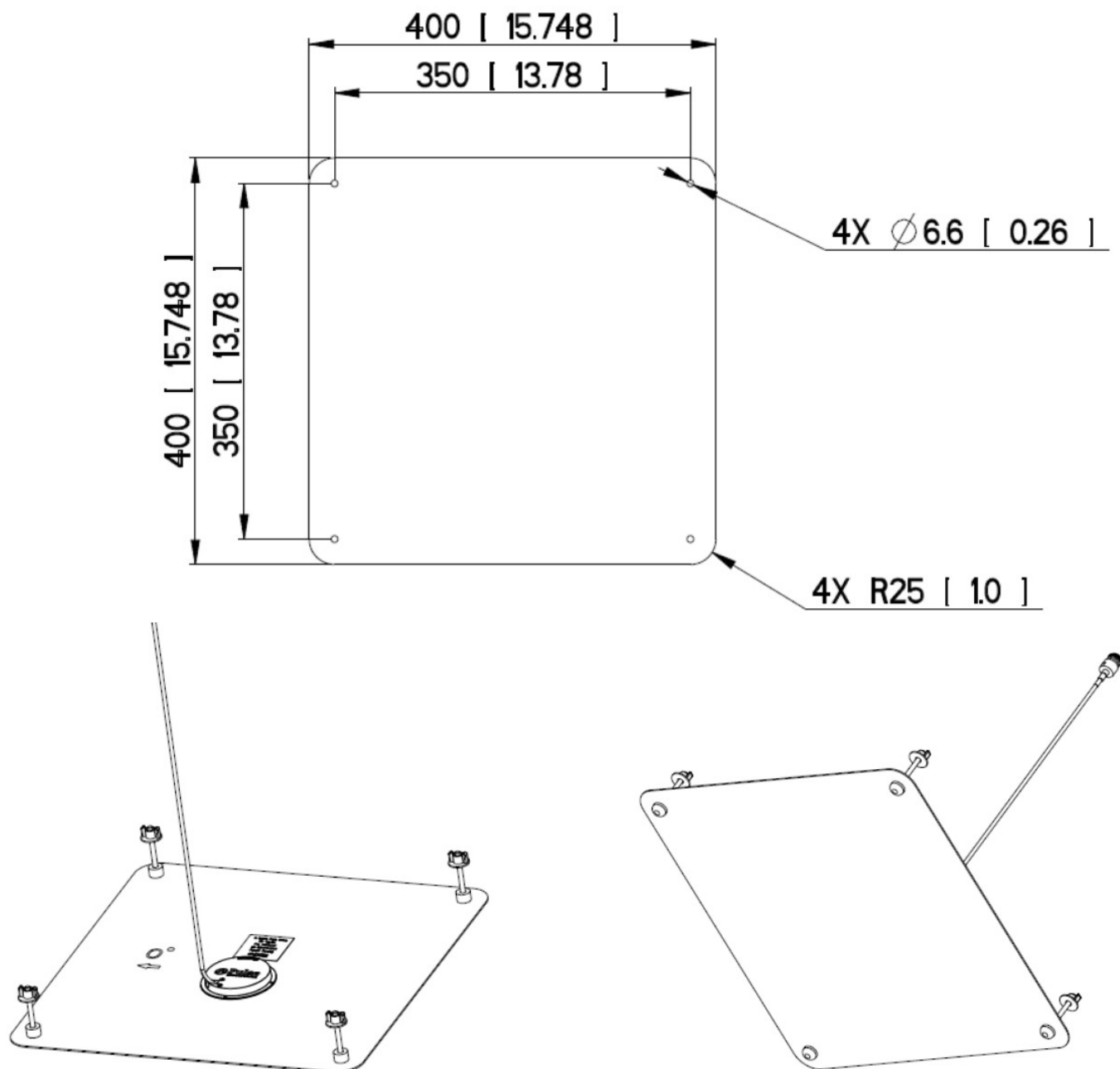
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Series: V-Thinity

**Description:** In Building Public Safety  
Antenna 450-490 MHz

**PART NUMBER: PSIBUHF**

## MECHANICAL DRAWING



Issue: 1713

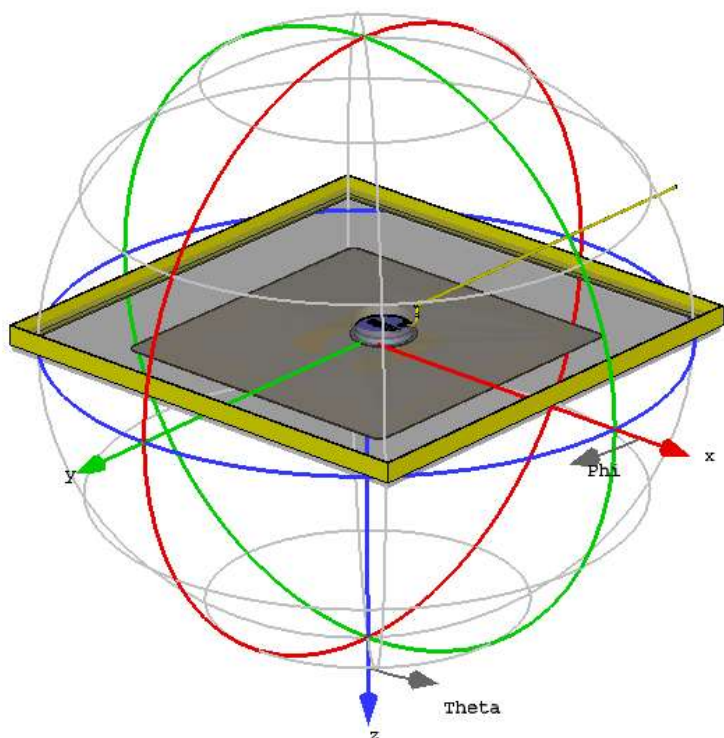
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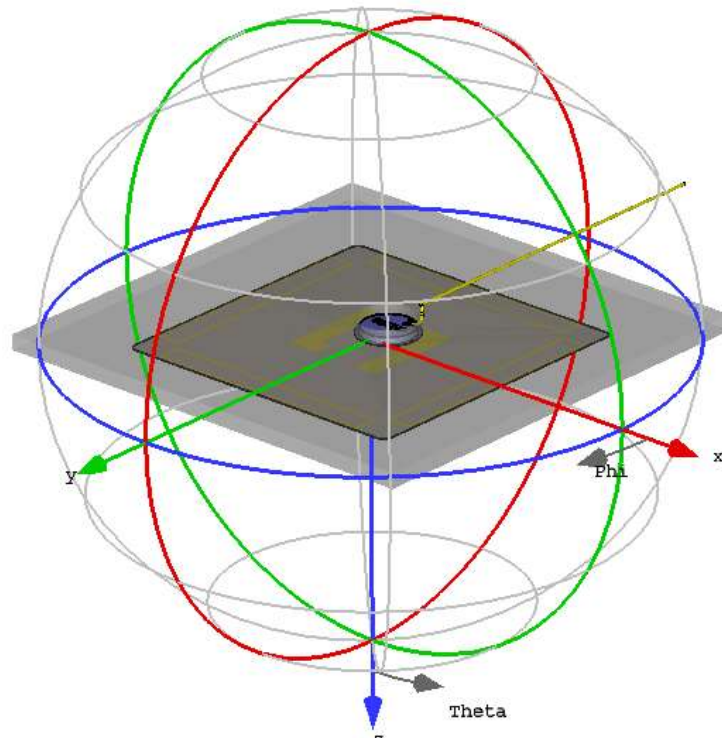
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## TEST SETUP

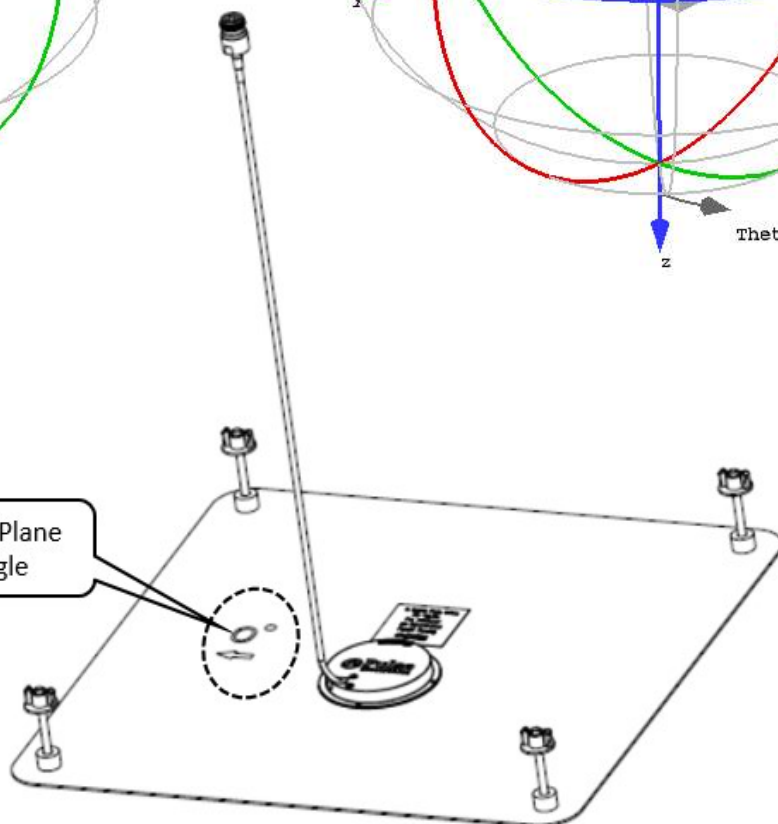
Test setup with 2x2ft ceiling  
tile and metal rails



Test setup with 13mm drywall  
sheet



Horizontal Plane  
Zero Angle



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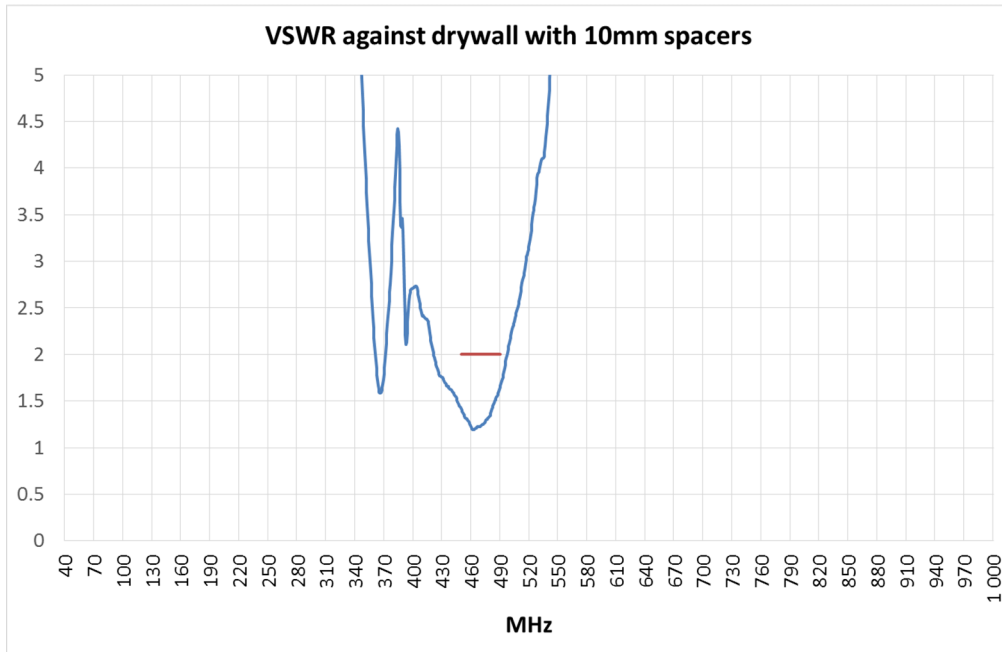
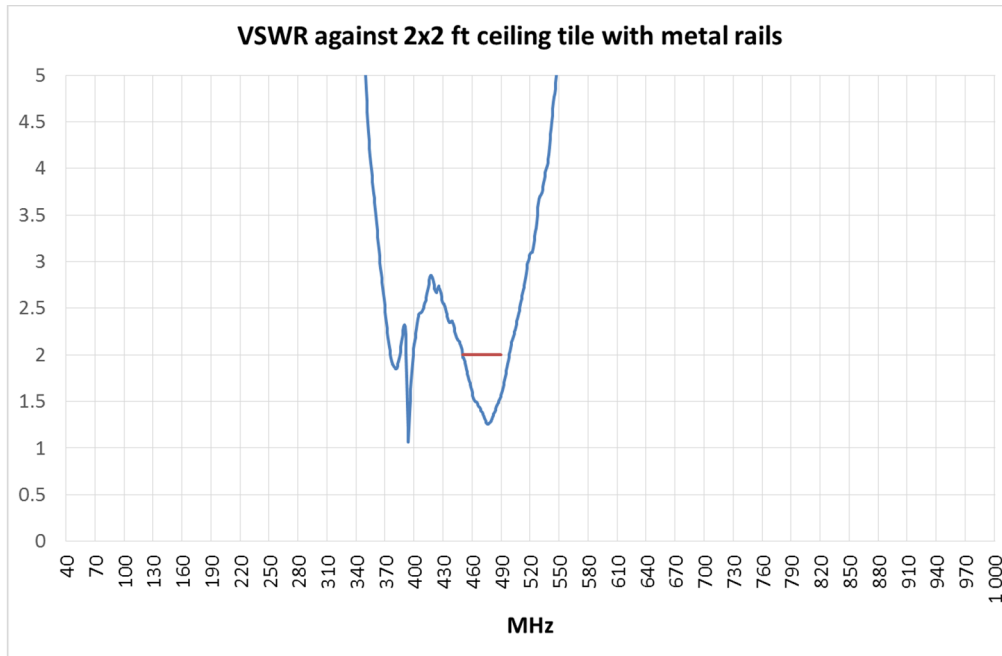
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Antenna 450-490 MHz

**PART NUMBER: PSIBUHF**

## CHARTS



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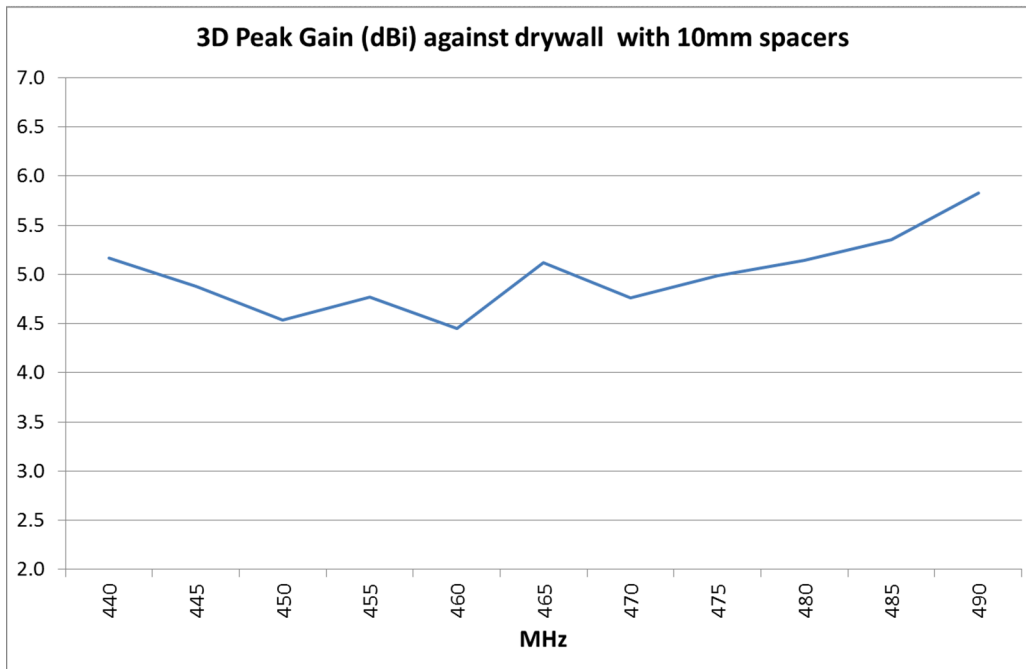
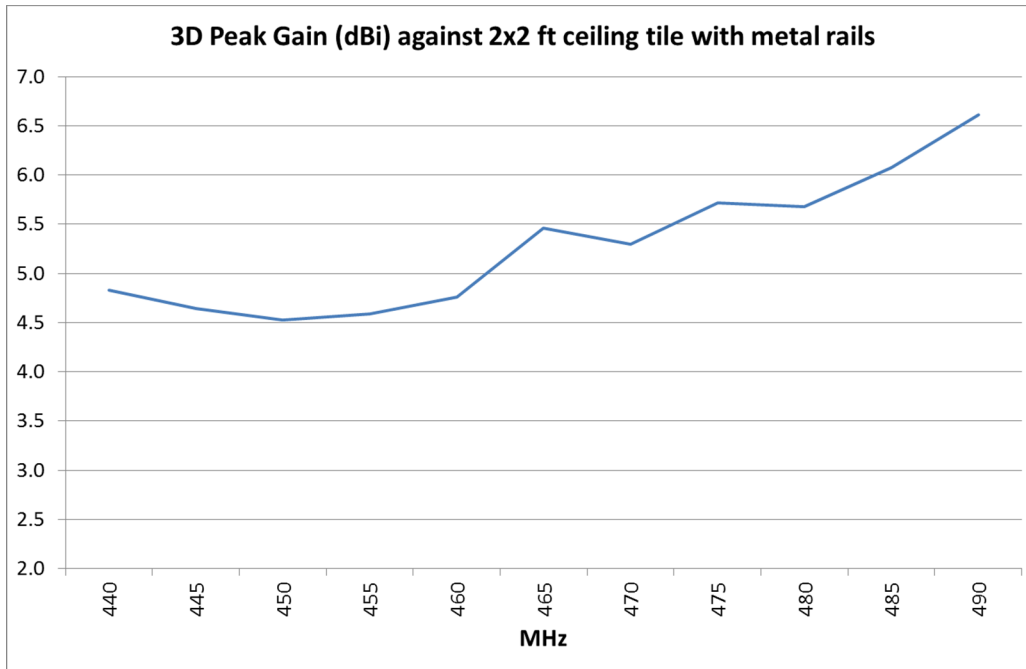
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## CHARTS



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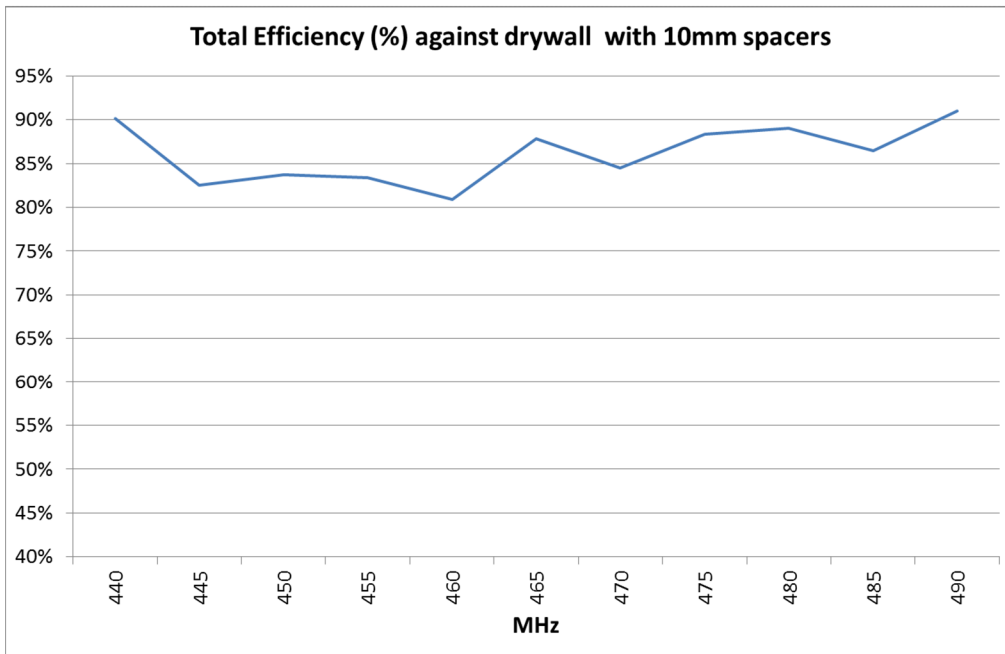
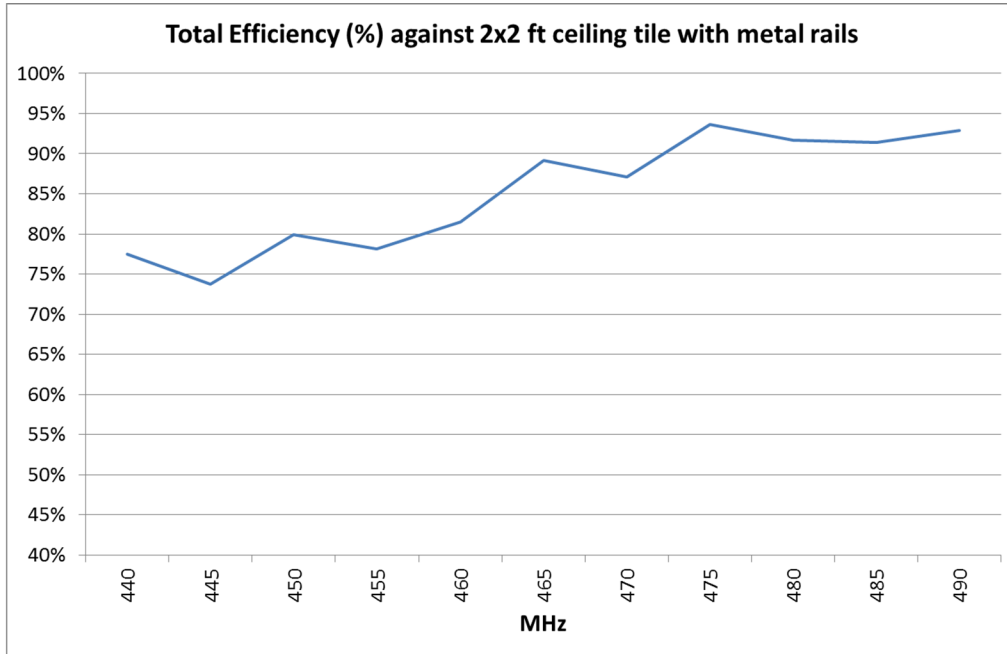
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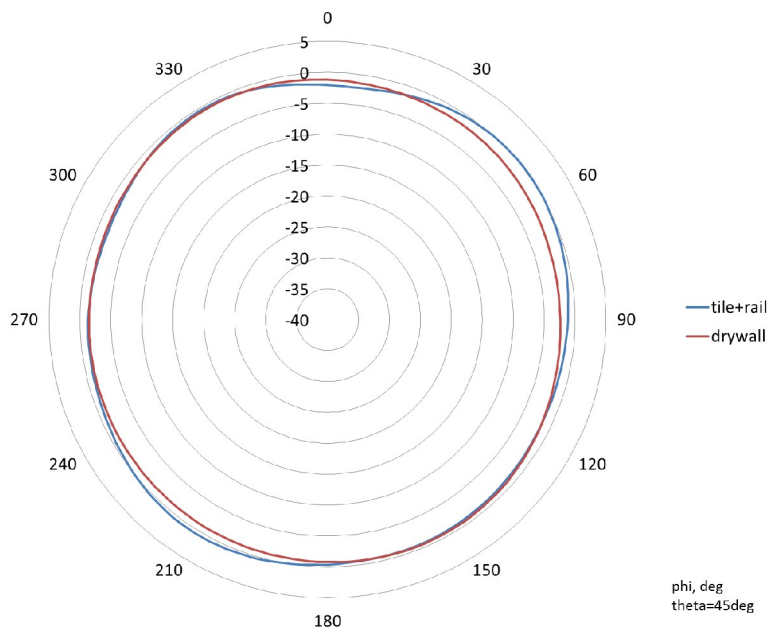
Series: V-Thinity

**Description:** In Building Public Safety  
Antenna 450-490 MHz

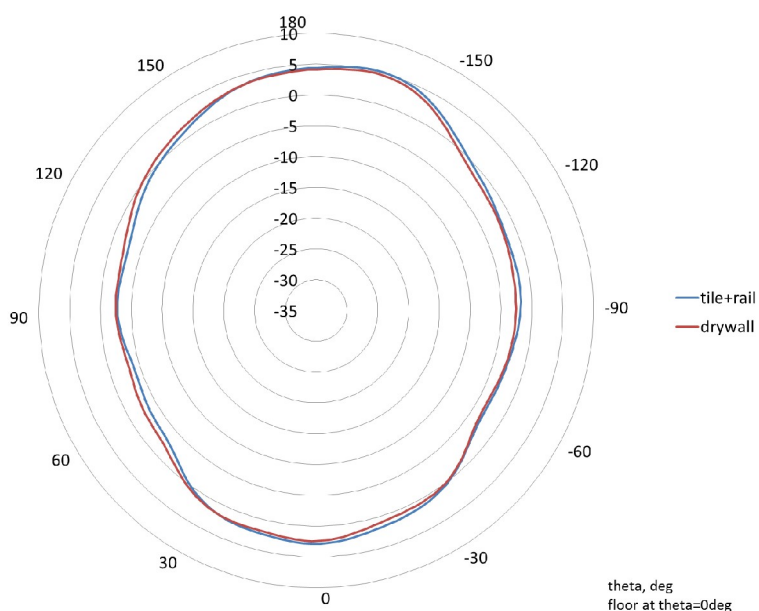
**PART NUMBER: PSIBUHF**

## CHARTS

Horizontal cut



Vertical cut, Phi=90deg



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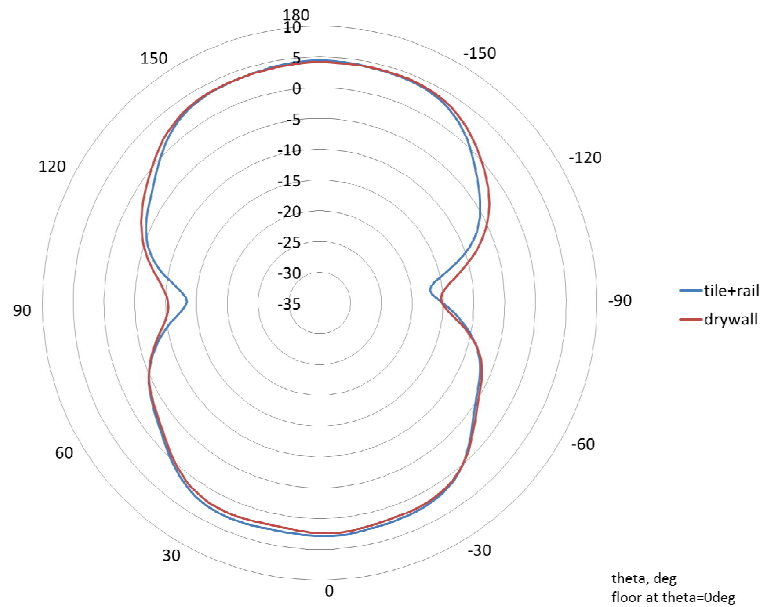
Series: V-Thinity

**Description:** In Building Public Safety  
Antenna 450-490 MHz

**PART NUMBER: PSIBUHF**

## CHARTS

Vertical cut, Phi=0deg



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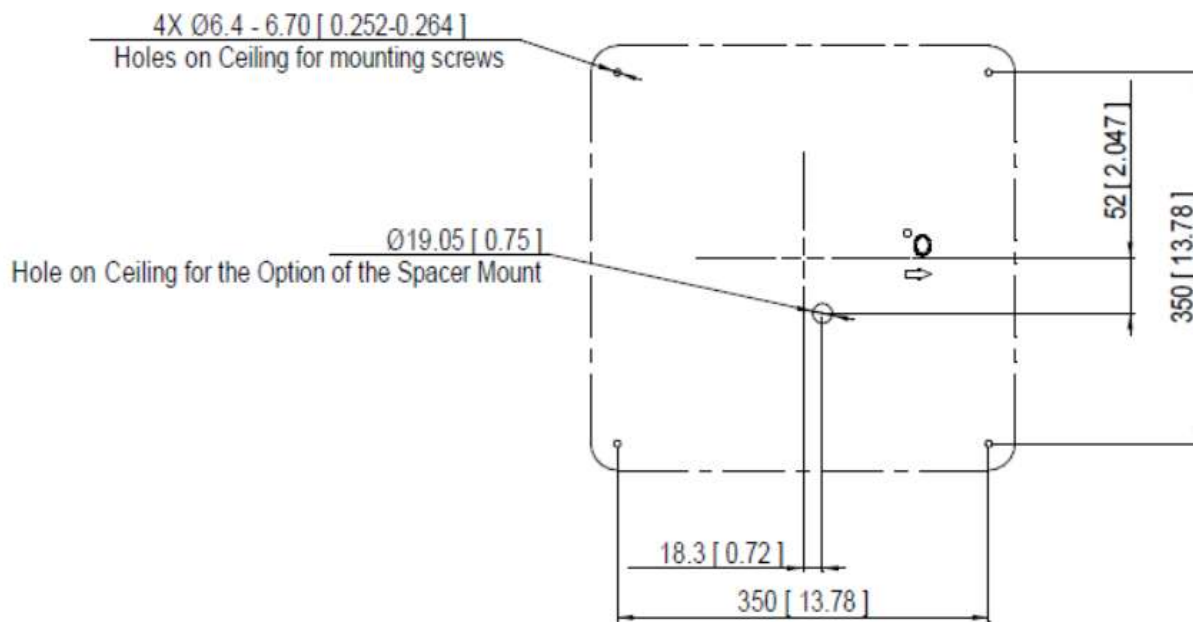
**Description:** In Building Public Safety  
Antenna 450-490 MHz

**PART NUMBER: PSIBUHF**

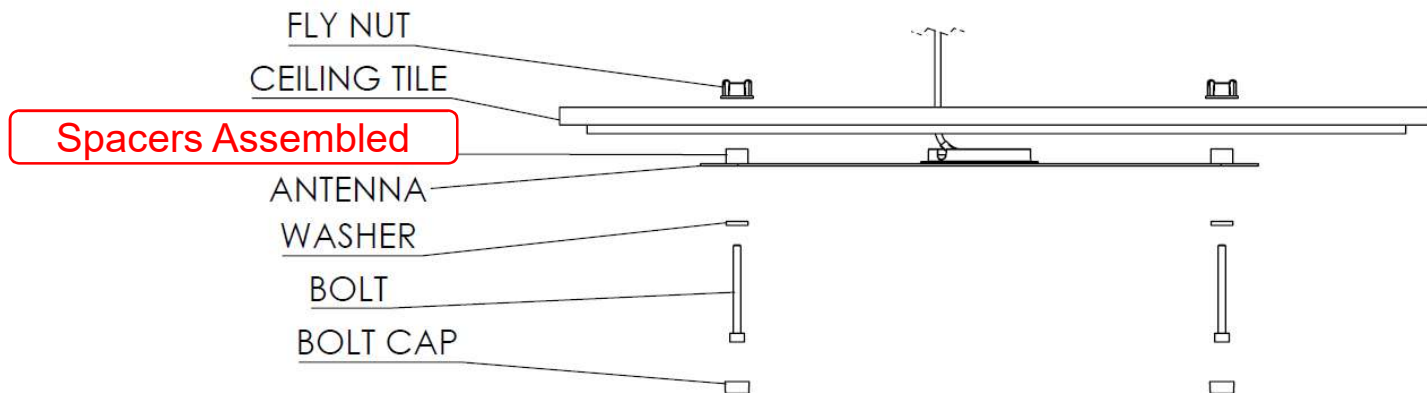
## PACKAGING

- Each antenna packed in a plastic bag and a single box
- 1 label on each antenna with Part number, Description, Serial number, date code
- 34 single boxes of antennas (TBD) packed in a master carton.
- 1 label on each carton with Qty, Part number, Date code.

Option - 1 Spacer Mount on Ceiling  
(The Spacers are assembled)



P.S.: View from the Downside of the Ceiling.

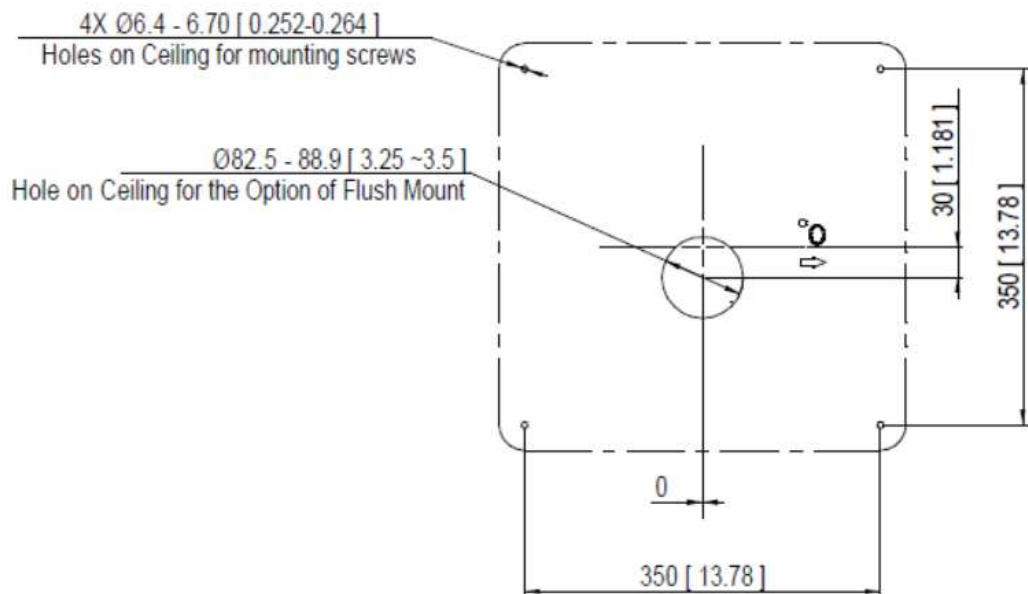


Series: V-Thinity

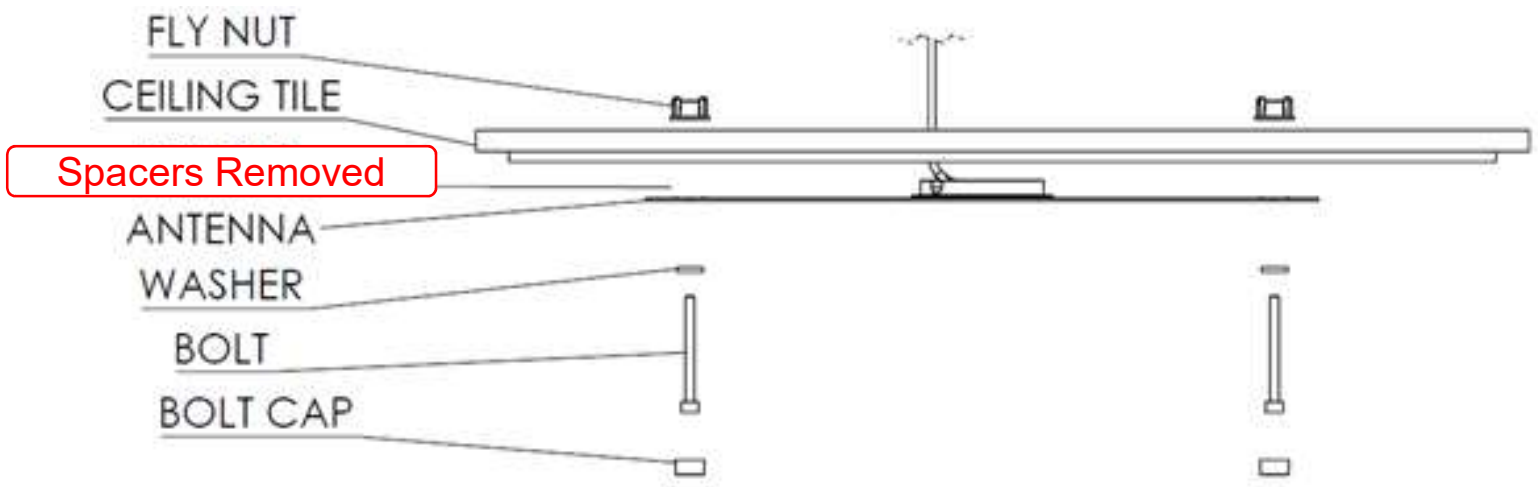
**Description:** In Building Public Safety  
Antenna 450-490 MHz

**PART NUMBER: PSIBUHF**

Option - 2 Flush Mount on Ceiling  
(The Spacers are removed)



P.S.: View from the Downside of the Ceiling.



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