

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

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In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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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 $\varnothing$ 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 +85C for 1 hr @ 15 deg.C/min rate of change; 3 cycles
Humidity	MIL STD 810G: 24h at 60C and 95%RH
Vibration	MIL STD 810G: 514.6 C-II

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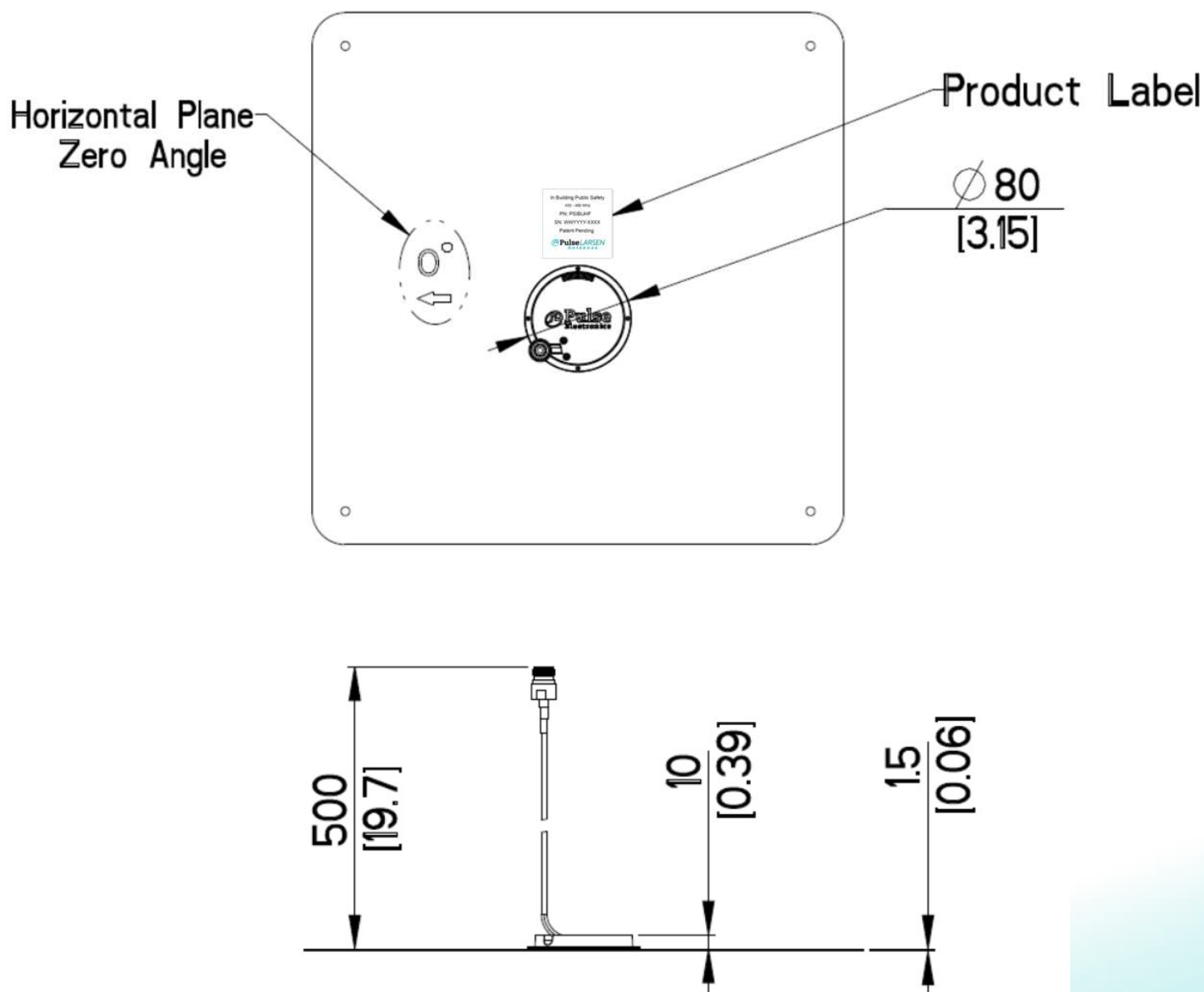
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## MECHANICAL DRAWING



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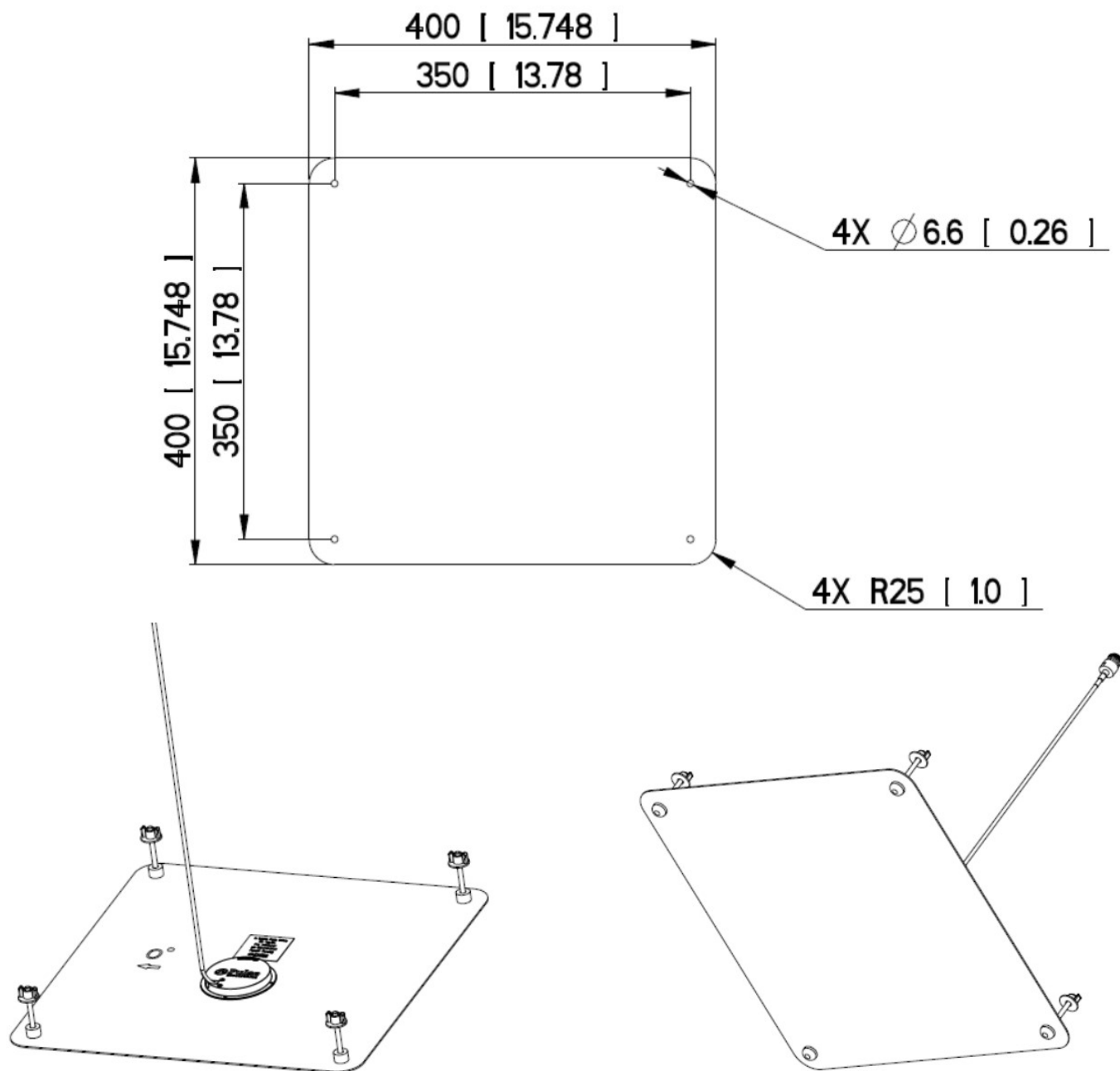
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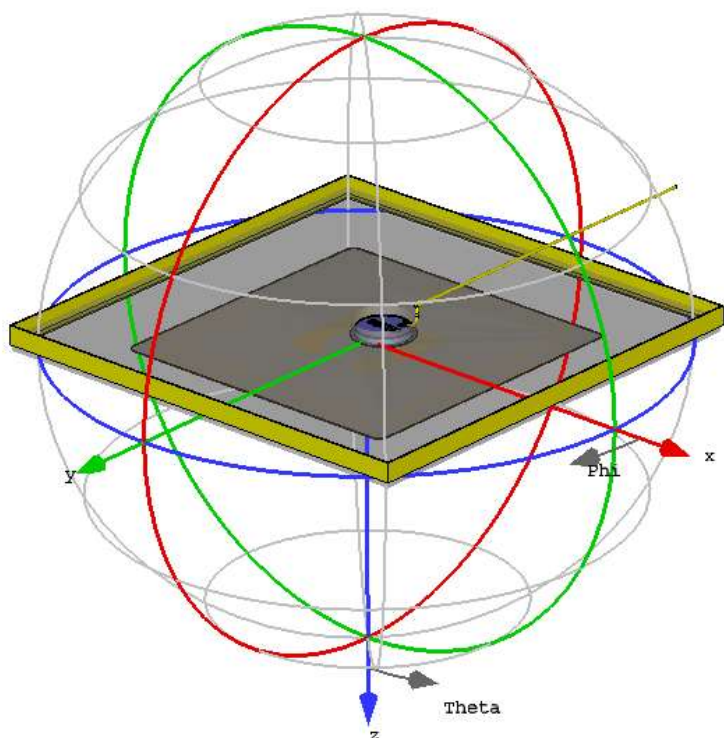
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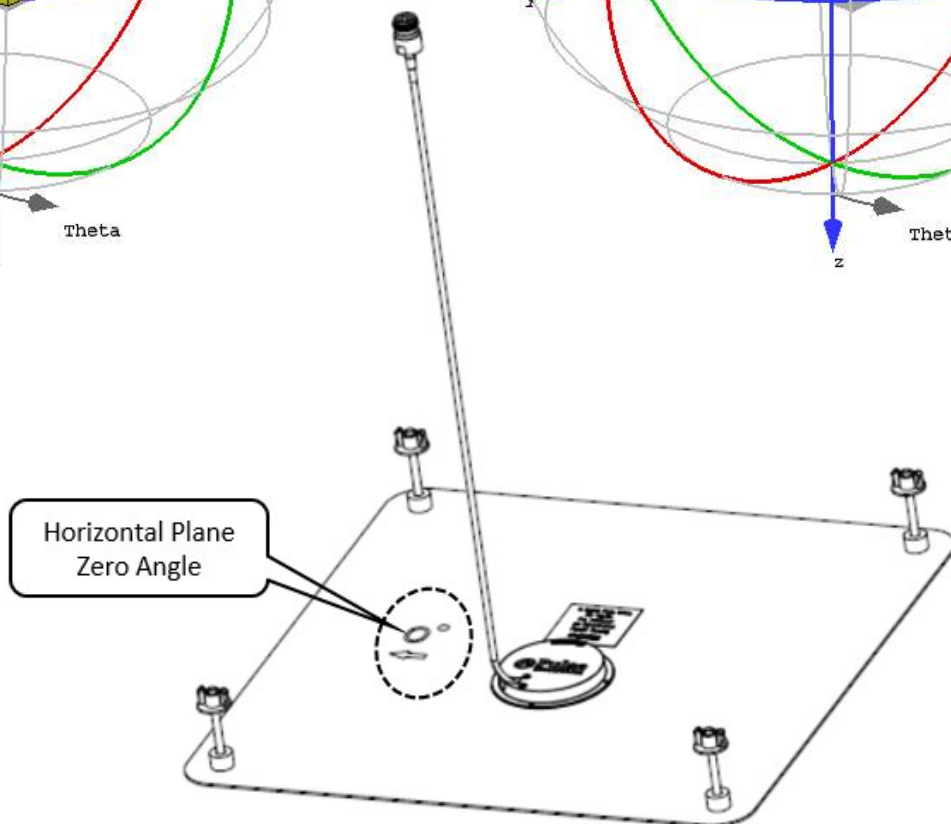
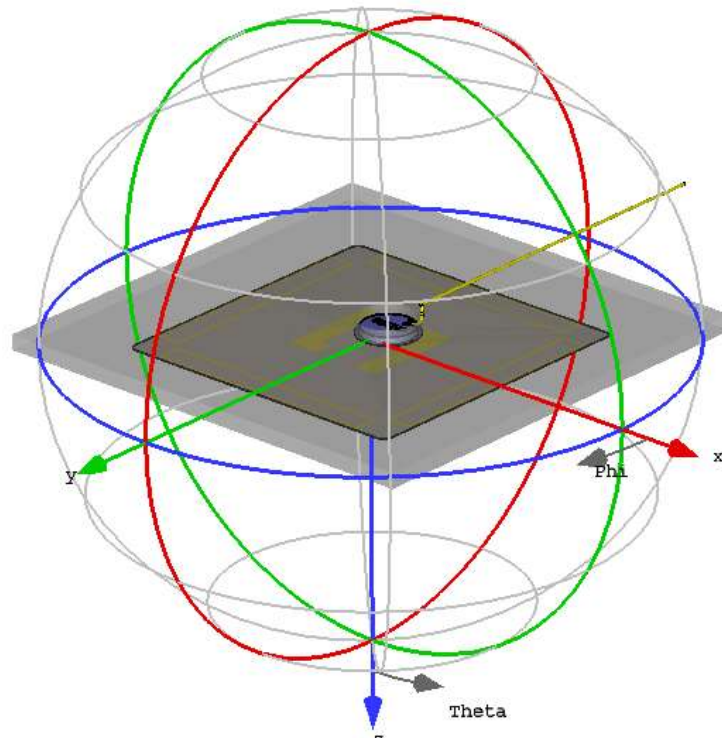
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## TEST SETUP

Test setup with 2x2ft ceiling  
tile and metal rails



Test setup with 13mm drywall  
sheet



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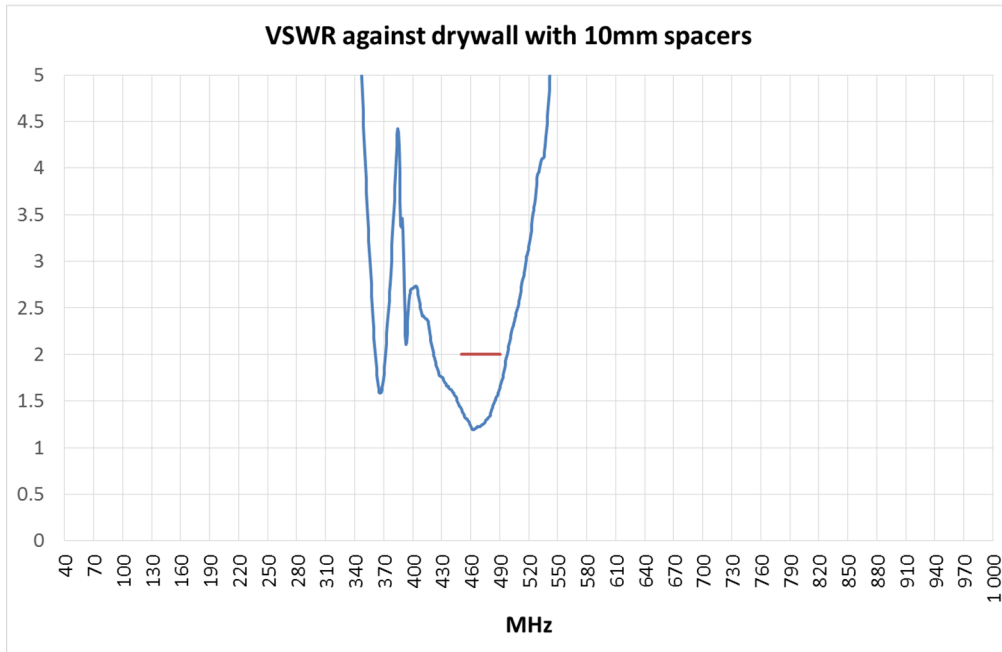
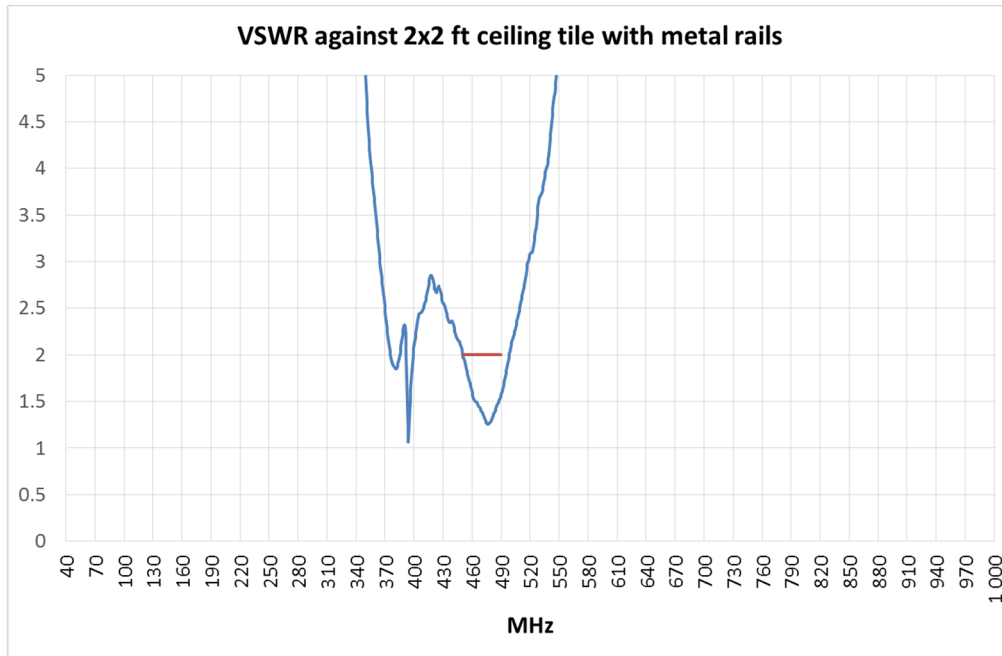
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## CHARTS



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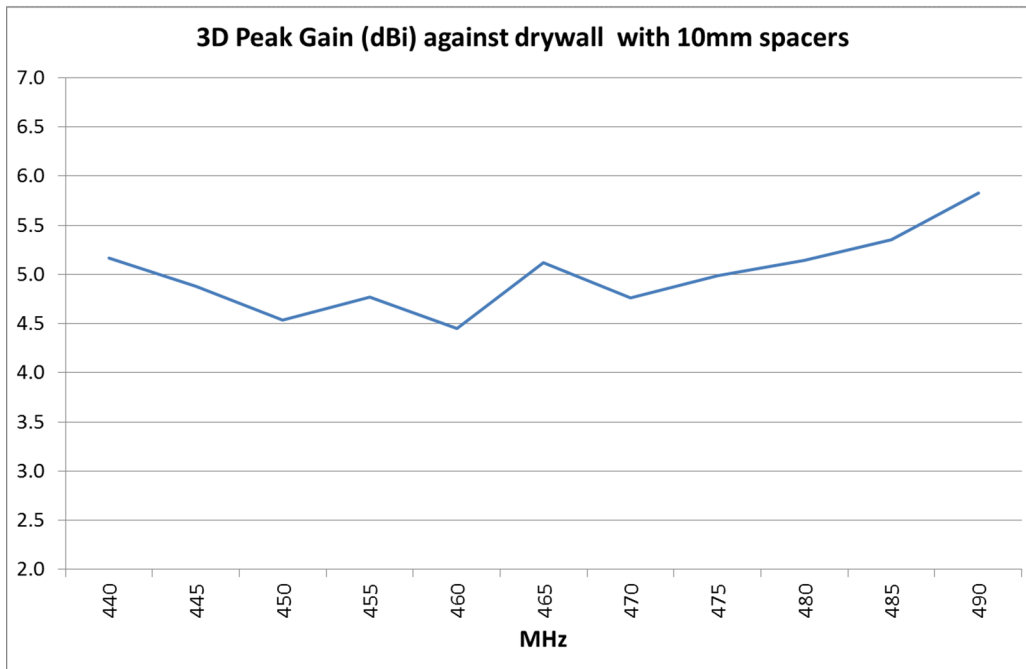
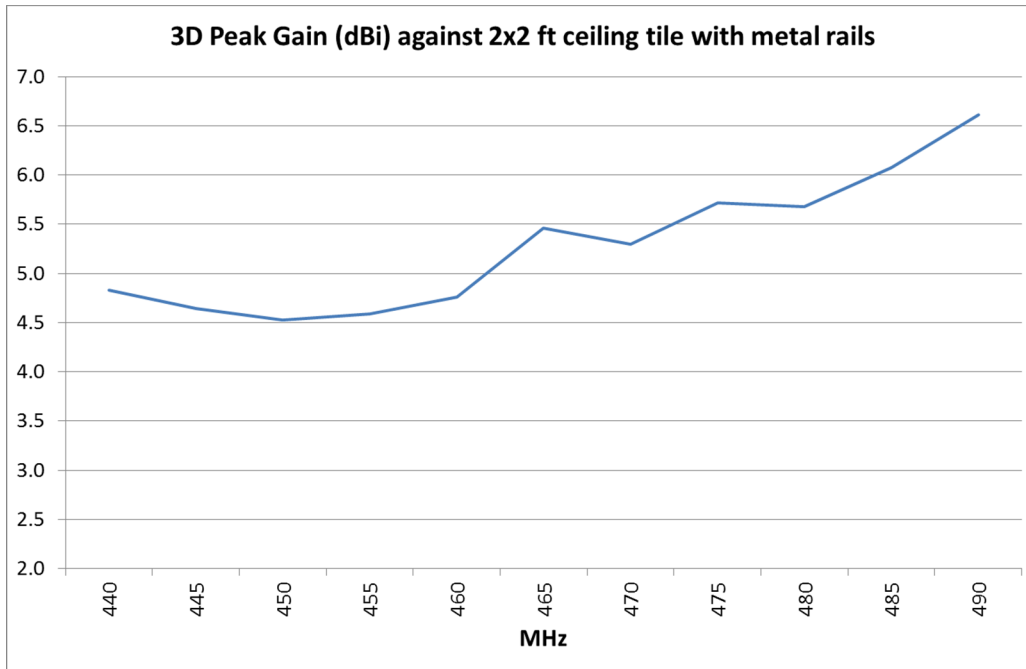
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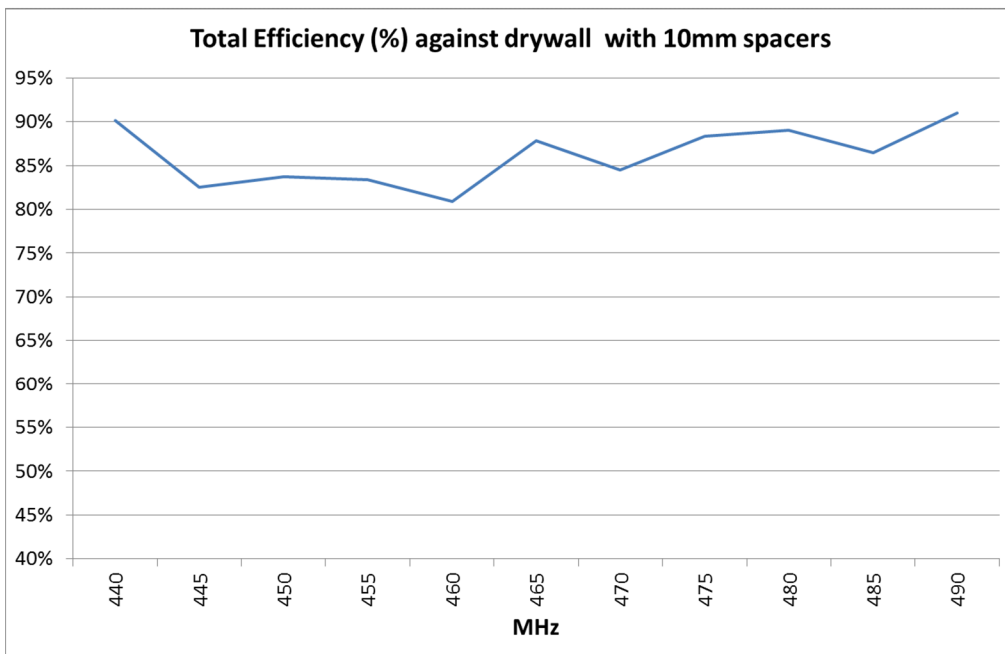
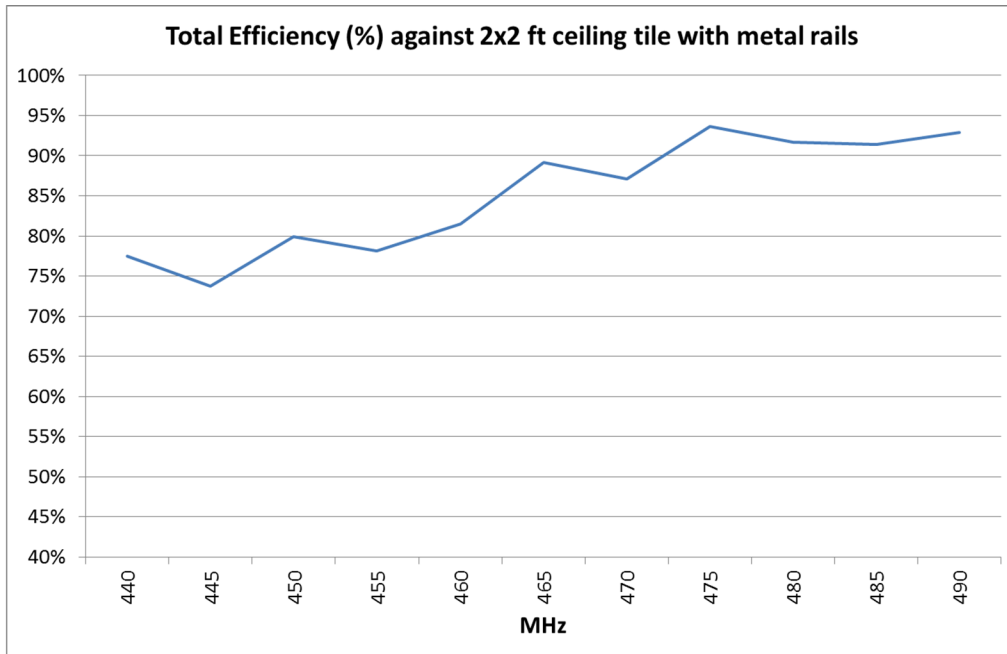
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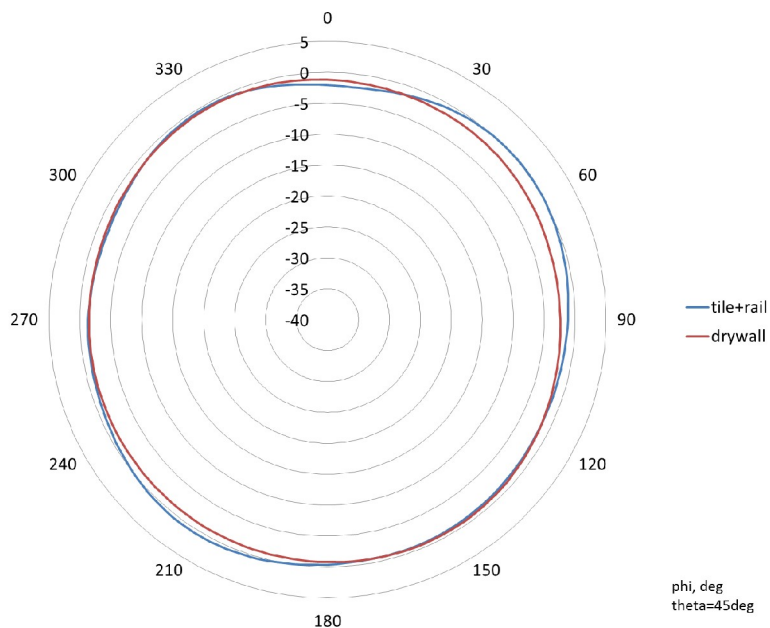
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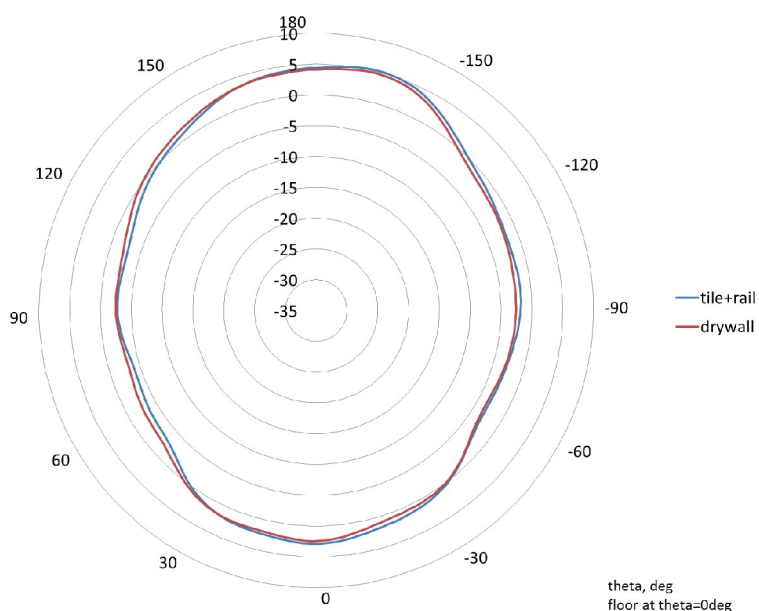
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## CHARTS

Horizontal cut



Vertical cut, Phi=90deg



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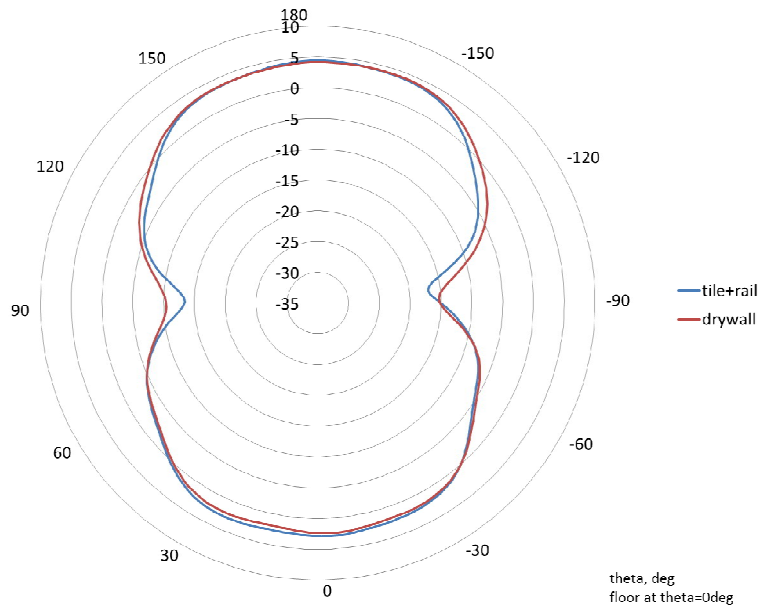
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## CHARTS

Vertical cut, Phi=0deg



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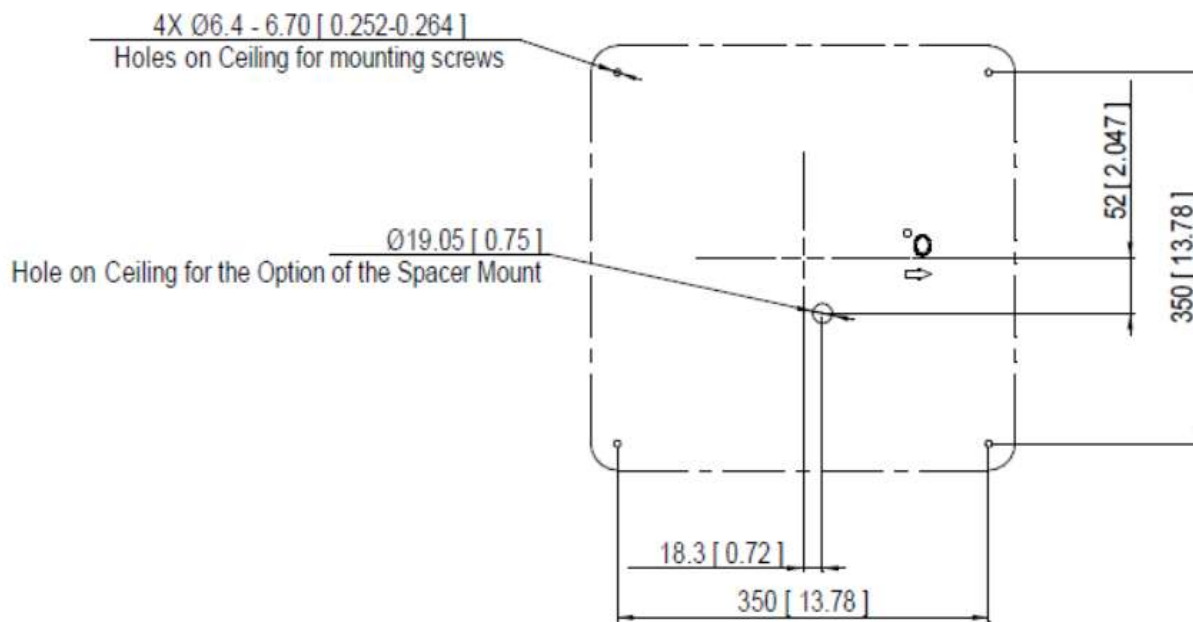
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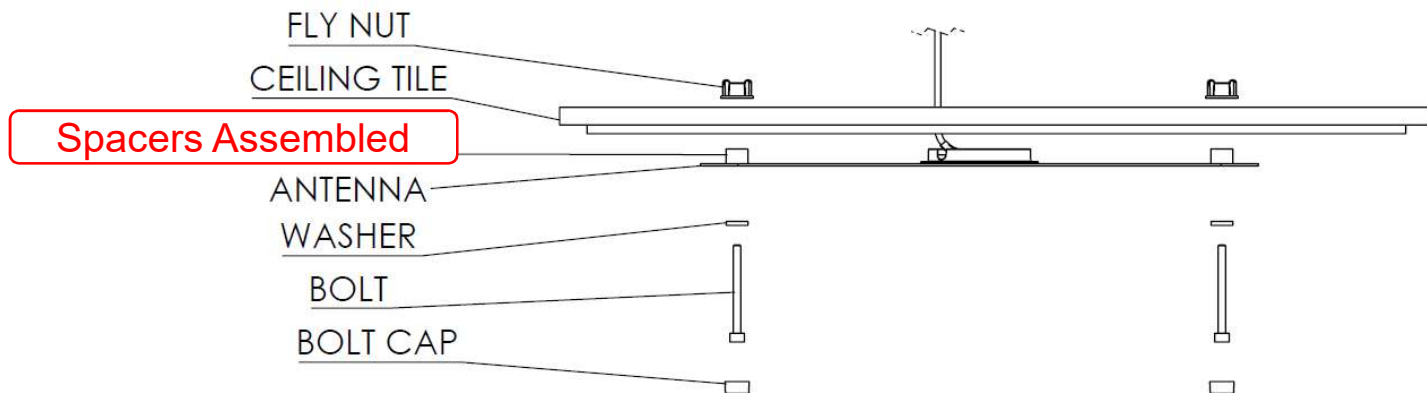
## PACKAGING

- 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.

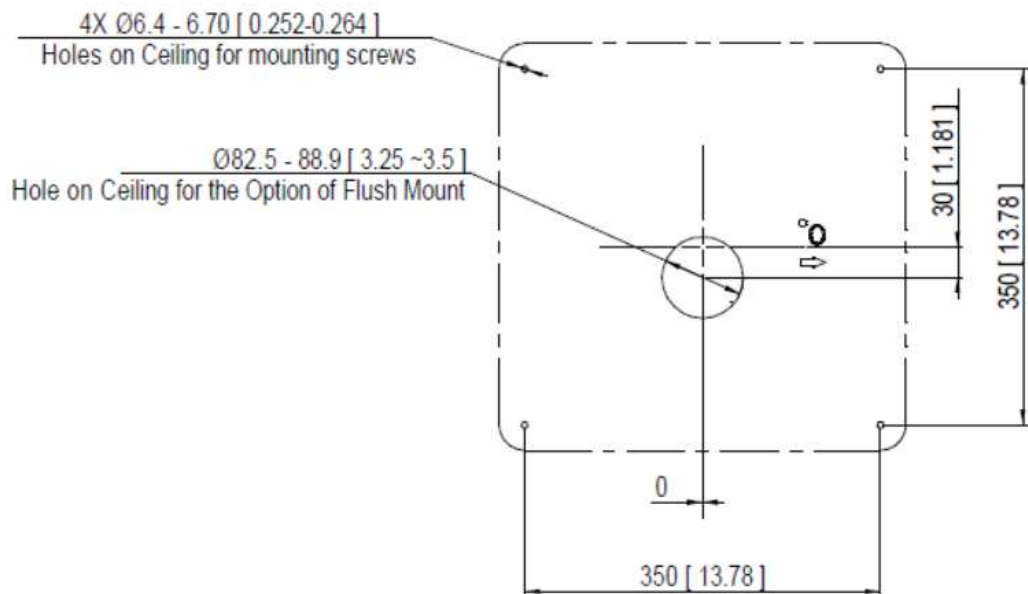


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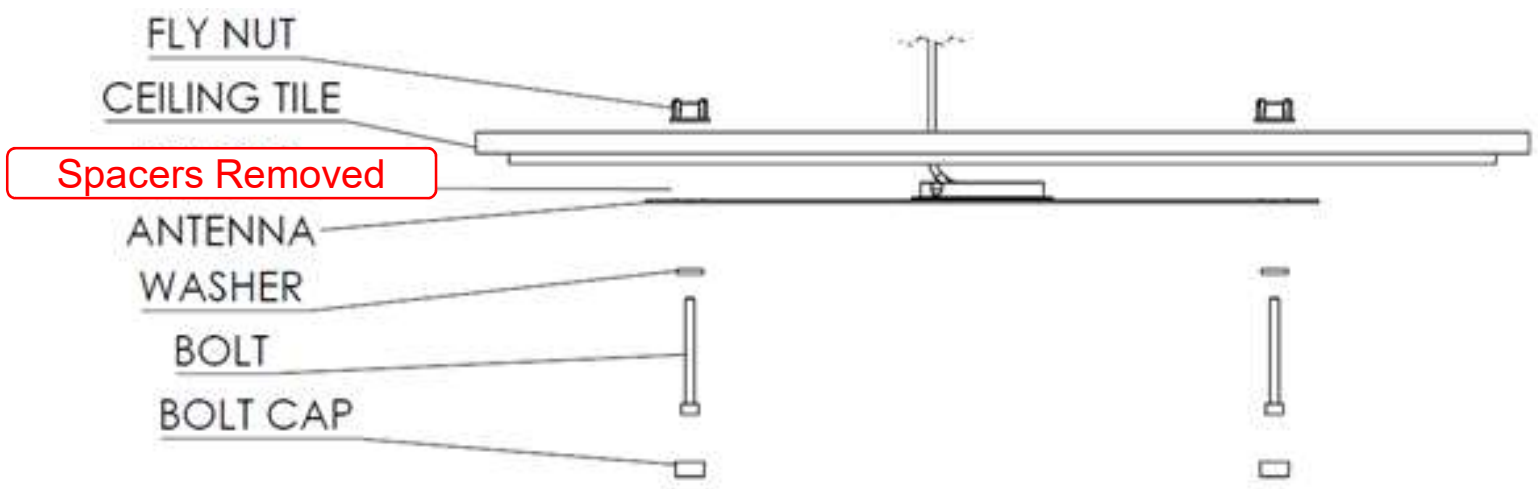
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Option - 2 Flush Mount on Ceiling  
(The Spacers are removed)



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