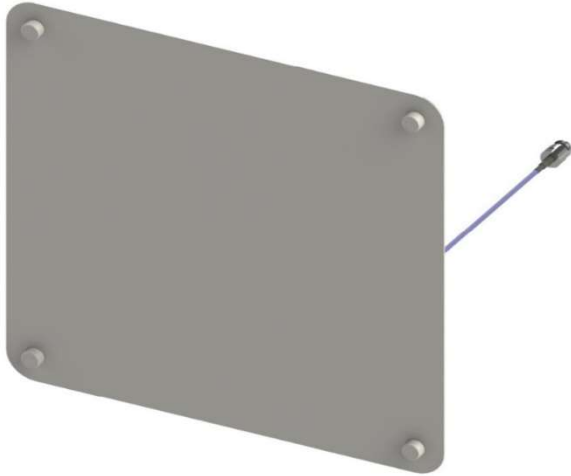


Series: V-Thinity

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

**PART NUMBER: PSIBUHF**



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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Herrenberg, Germany  
Tel: 49 7032 7806 0

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 $\varnothing$ 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

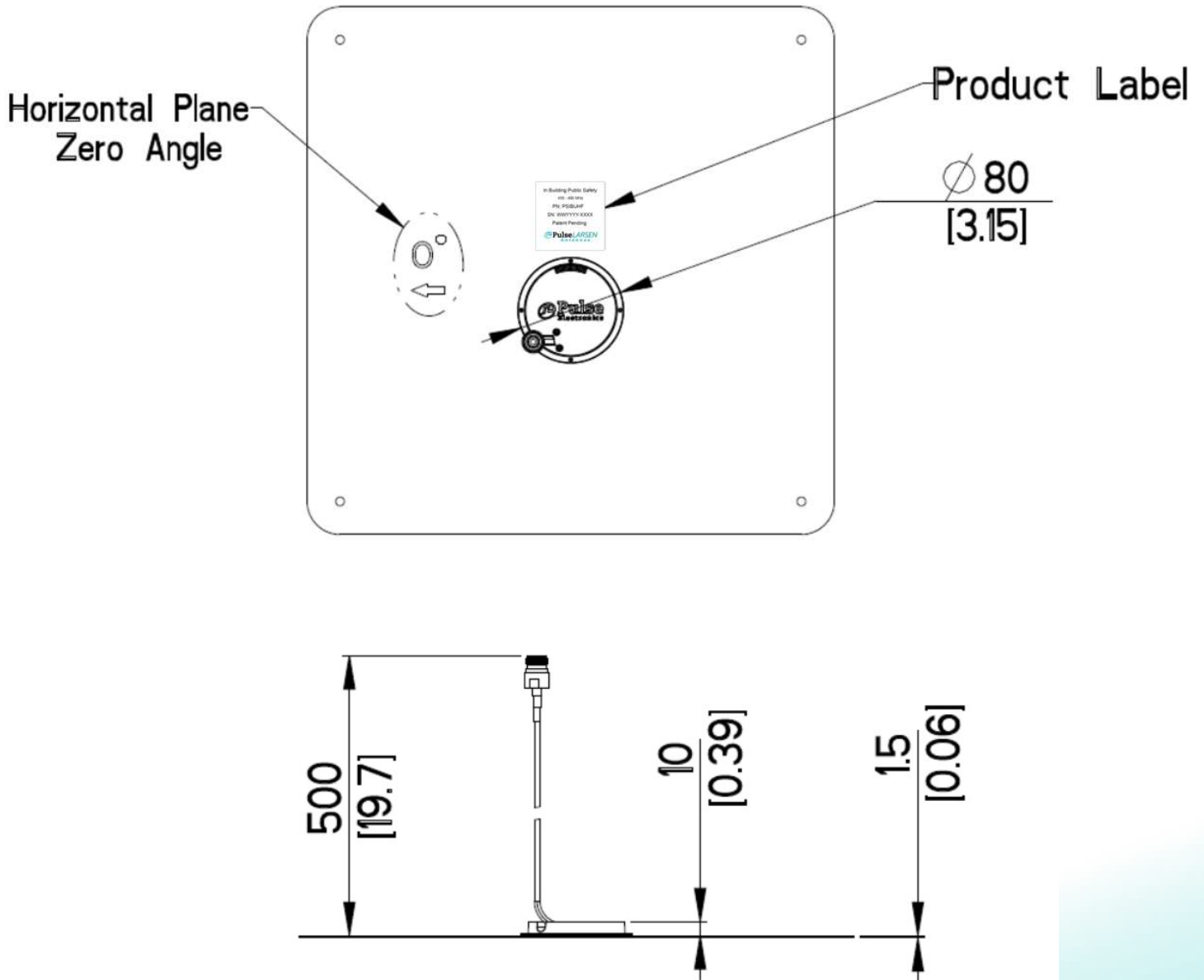
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**MECHANICAL DRAWING**



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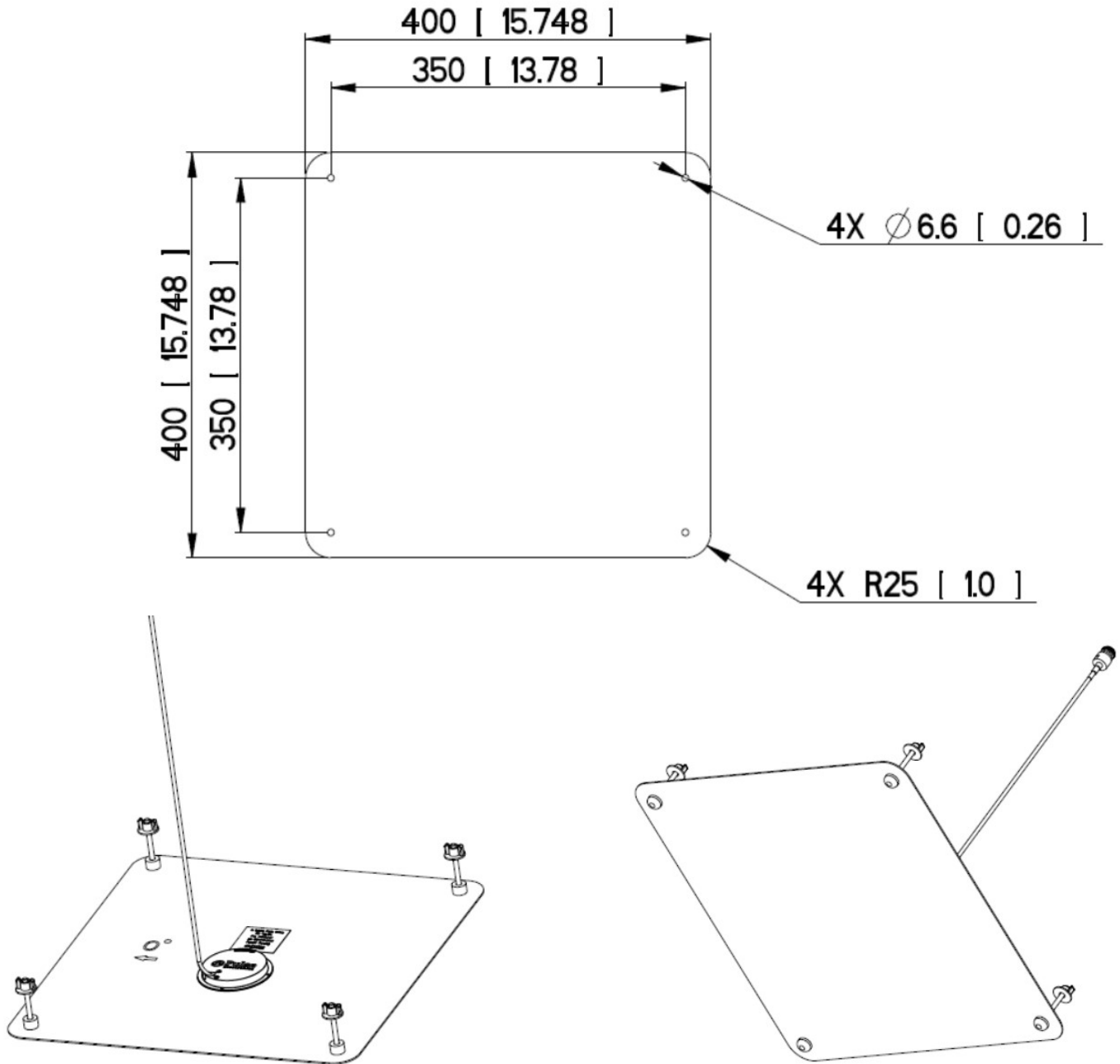
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**Description:** In Building Public Safety  
Antenna 450-490 MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBUHF

**MECHANICAL DRAWING**



Issue: 1713

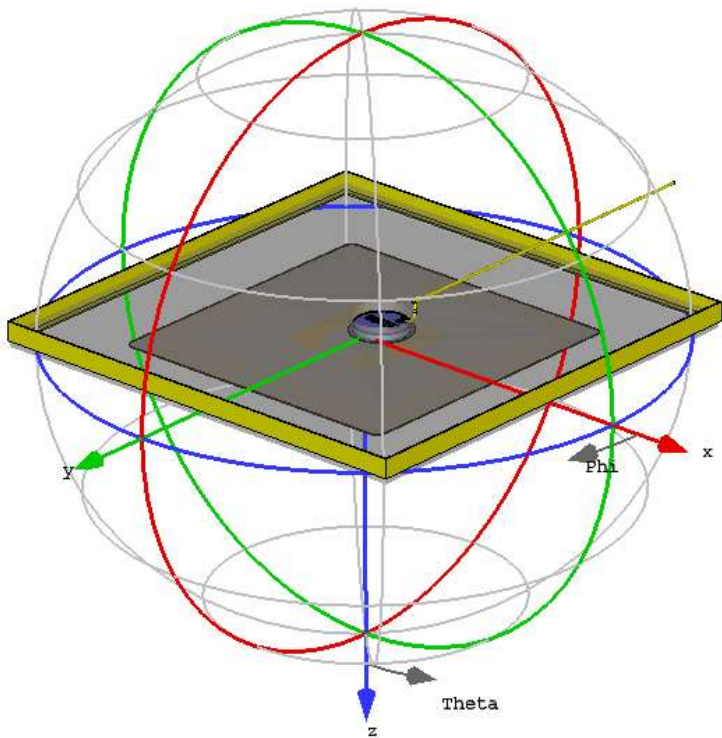
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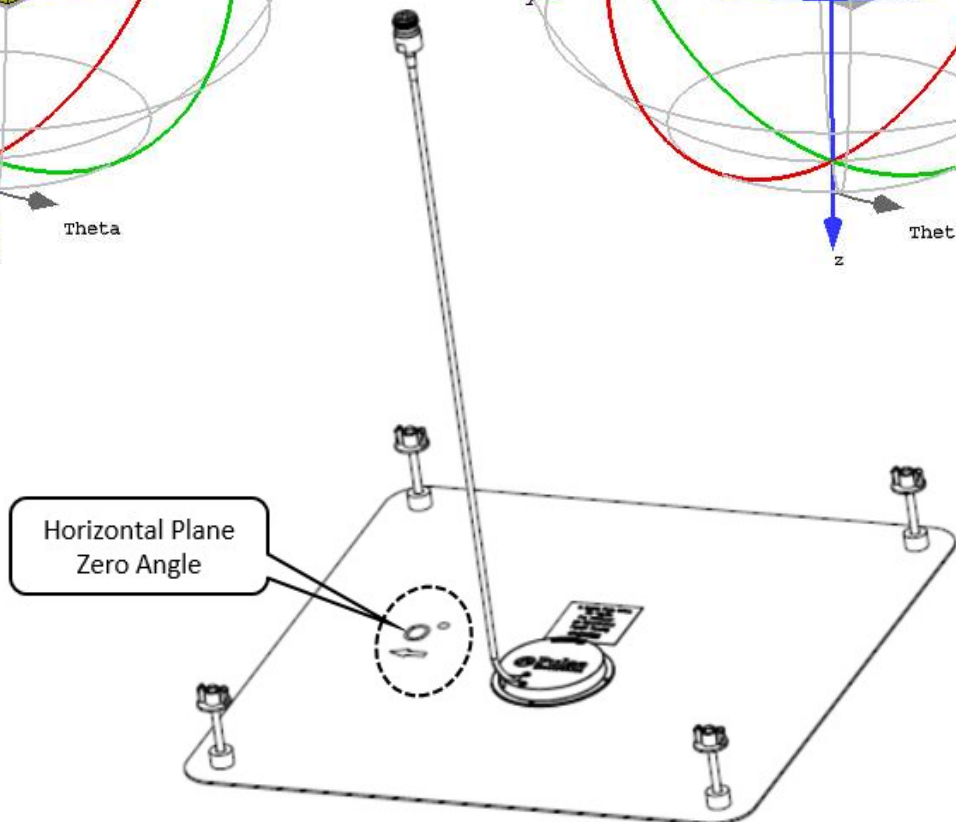
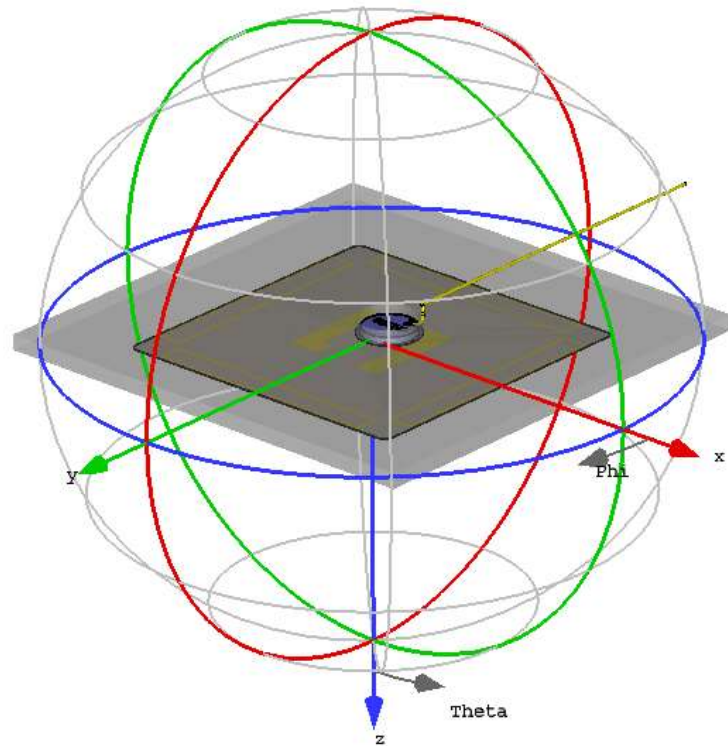
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**TEST SETUP**

Test setup with 2x2ft ceiling tile and metal rails



Test setup with 13mm drywall sheet



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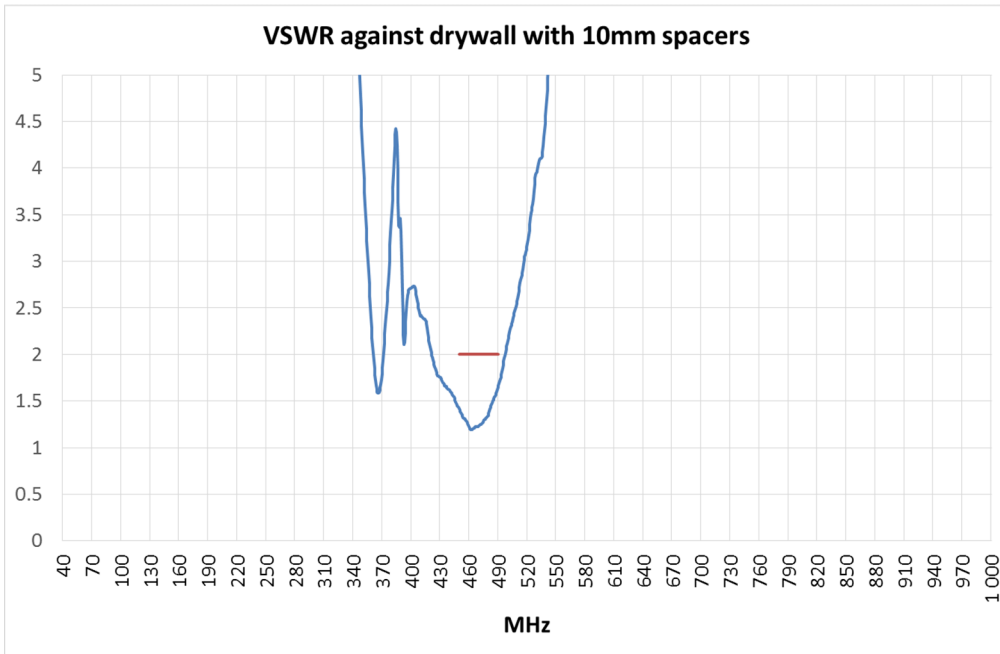
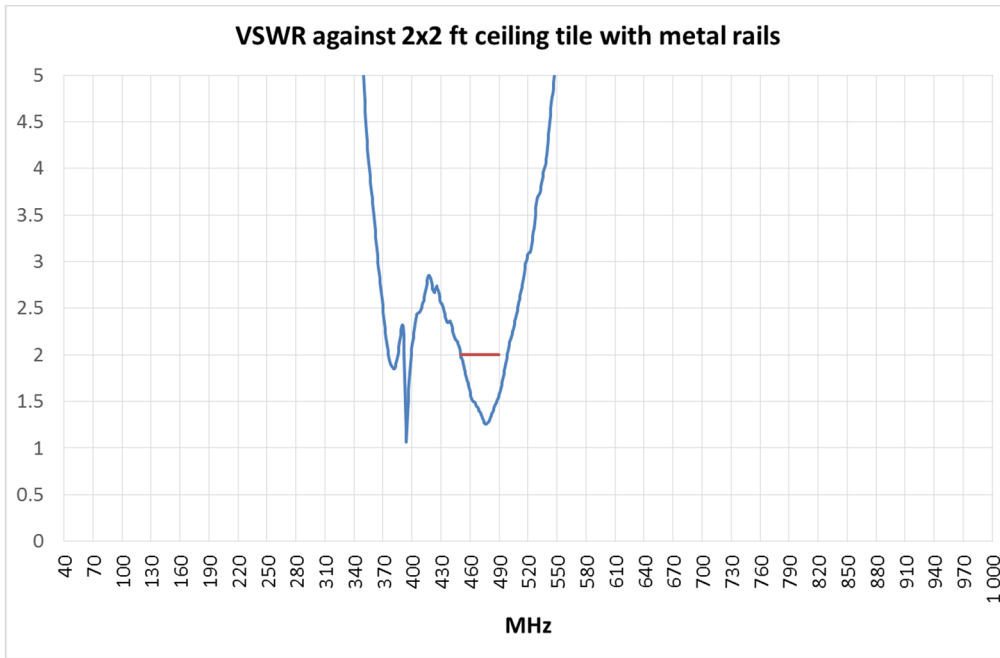
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**Description:** In Building Public Safety Antenna 450-490 MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBUHF

**CHARTS**



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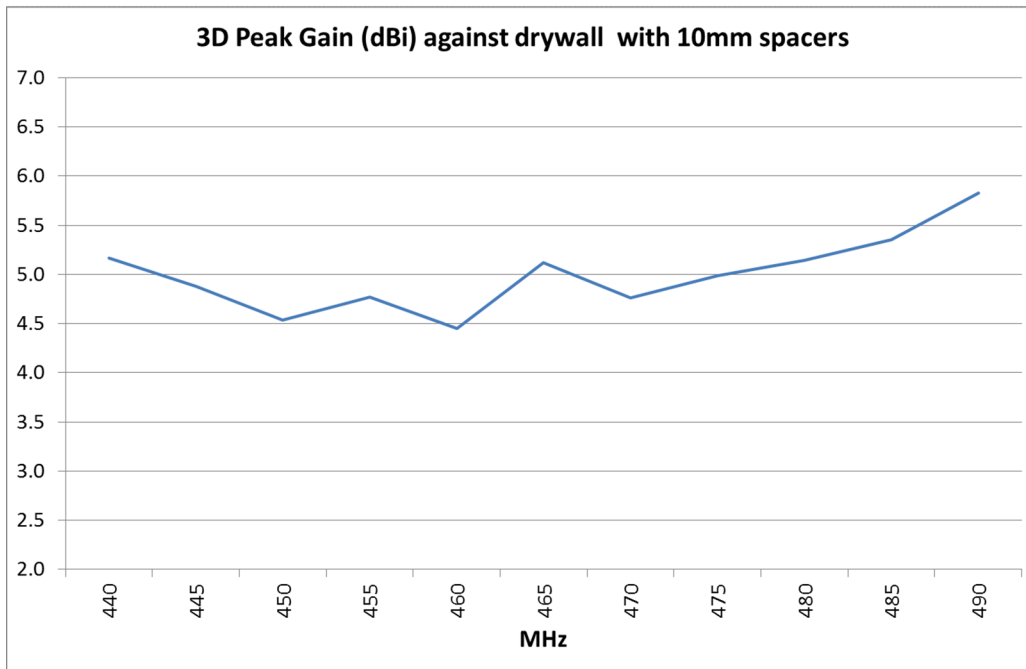
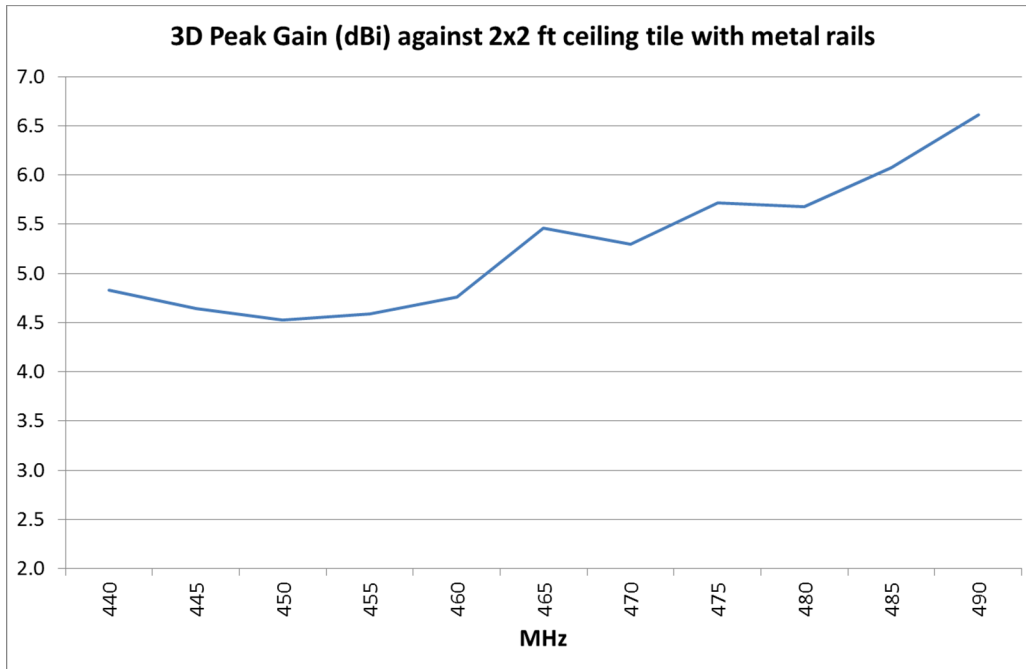
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**Description:** In Building Public Safety  
Antenna 450-490 MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBUHF

**CHARTS**



Issue: 1713

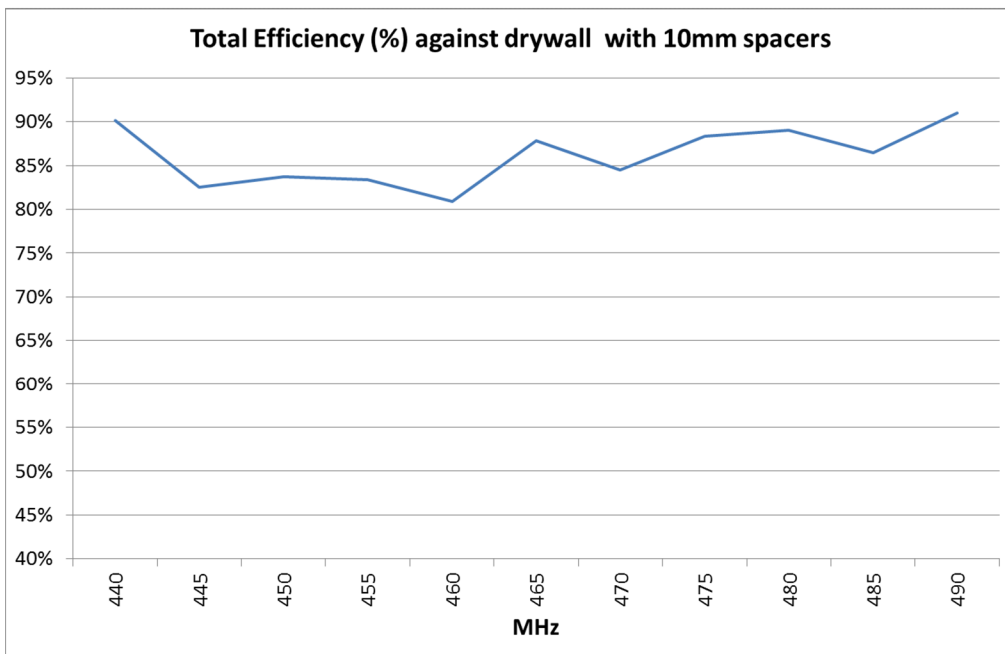
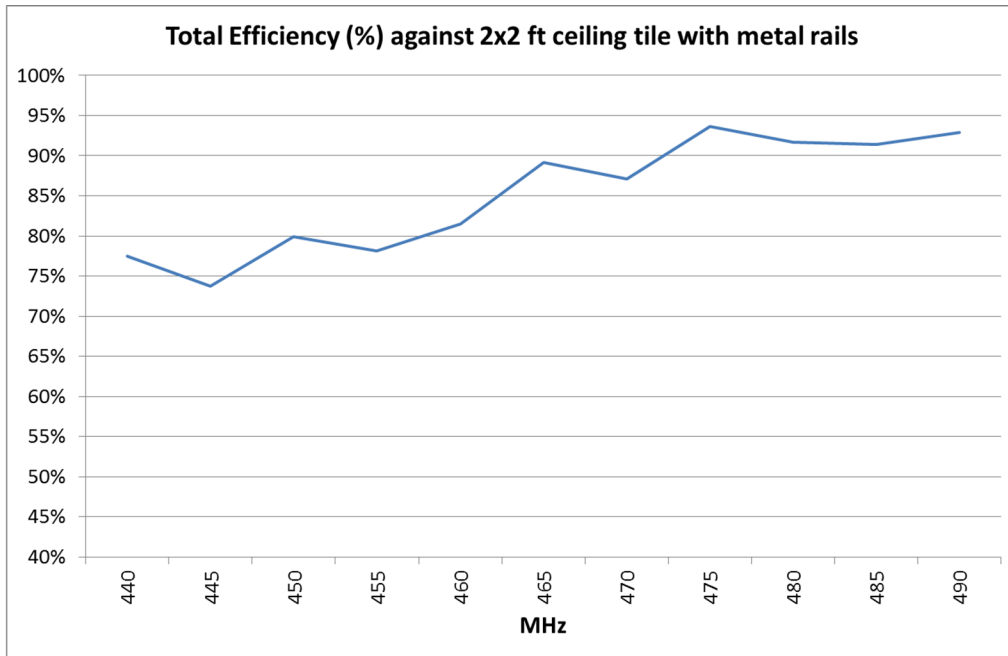
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**CHARTS**



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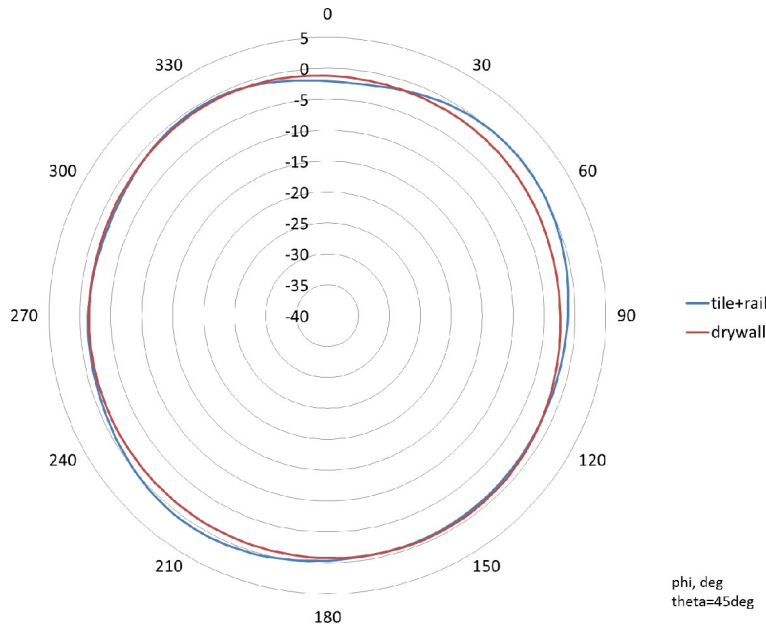
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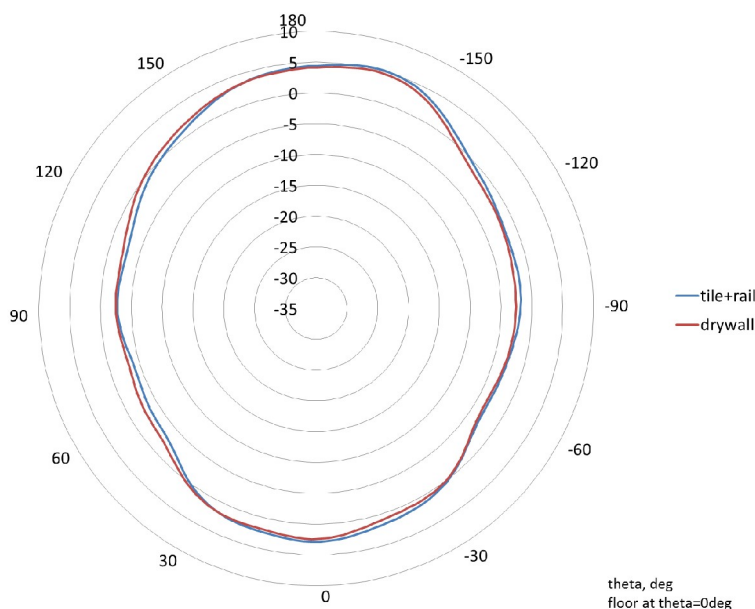


**CHARTS**

**Horizontal cut**



**Vertical cut, Phi=90deg**



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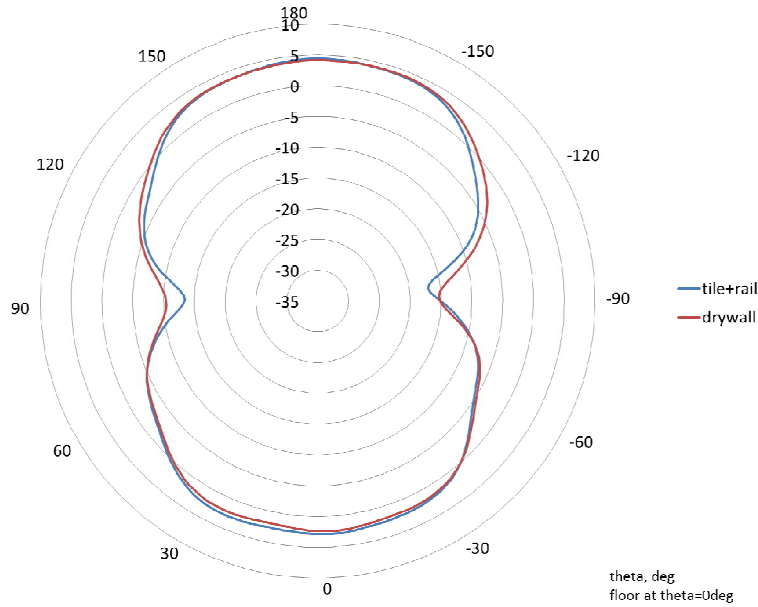
**Description:** In Building Public Safety  
Antenna 450-490 MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBUHF

**CHARTS**

**Vertical cut, Phi=0deg**



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Series: V-Thinity

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

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## PACKAGING

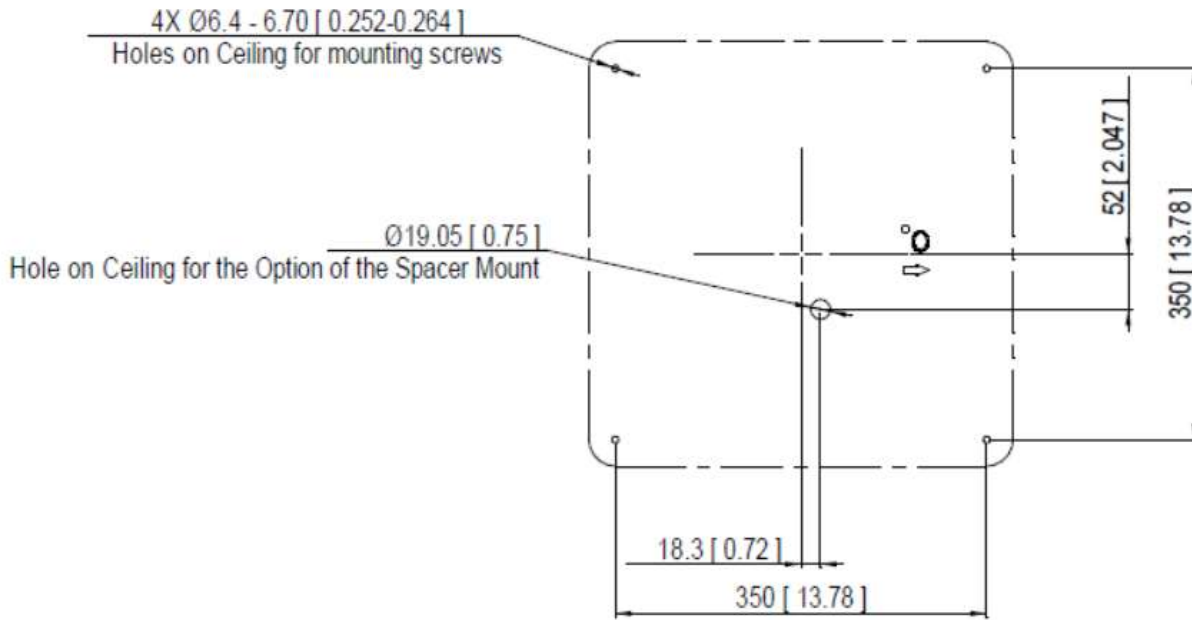
- Each antenna packed in a plastic bag and a single box
- 1 label on each antenna with Part number, Description, Serial number, date code
- 34 single boxes of antennas (TBD) packed in a master carton.
- 1 label on each carton with Qty, Part number, Date code.

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

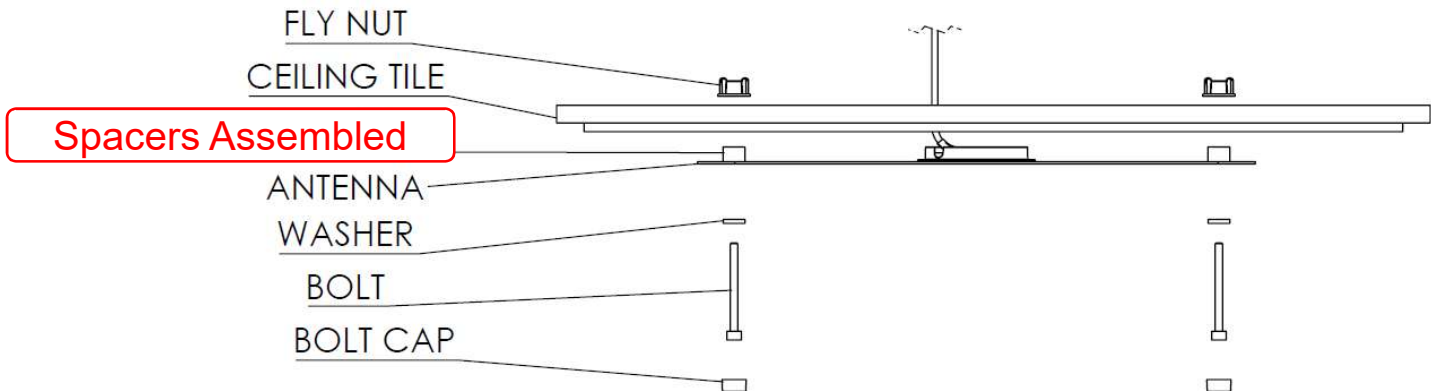
**Series:** V-Thinity

**PART NUMBER:** PSIBUHF

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



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



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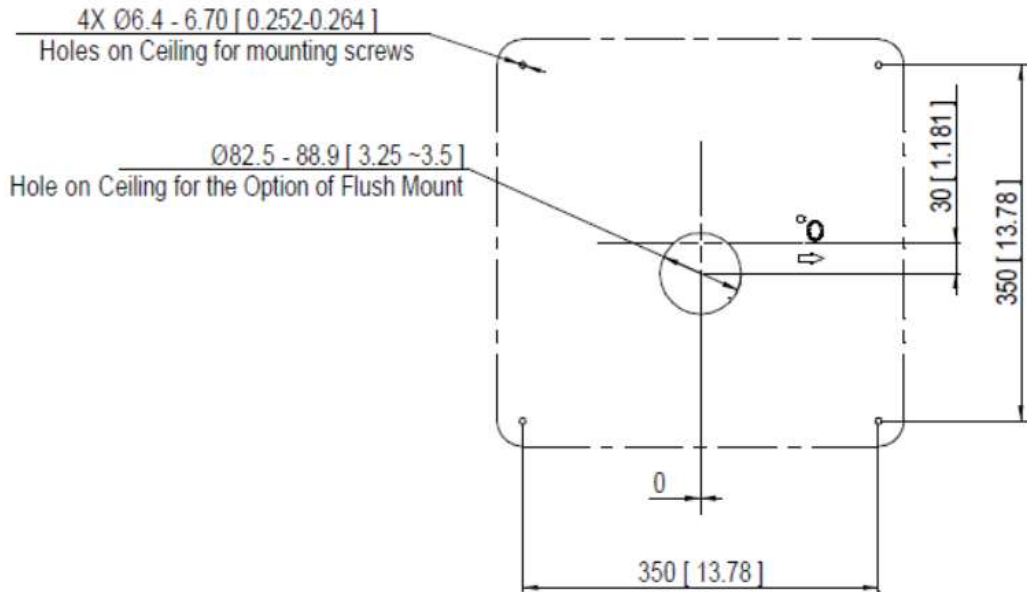
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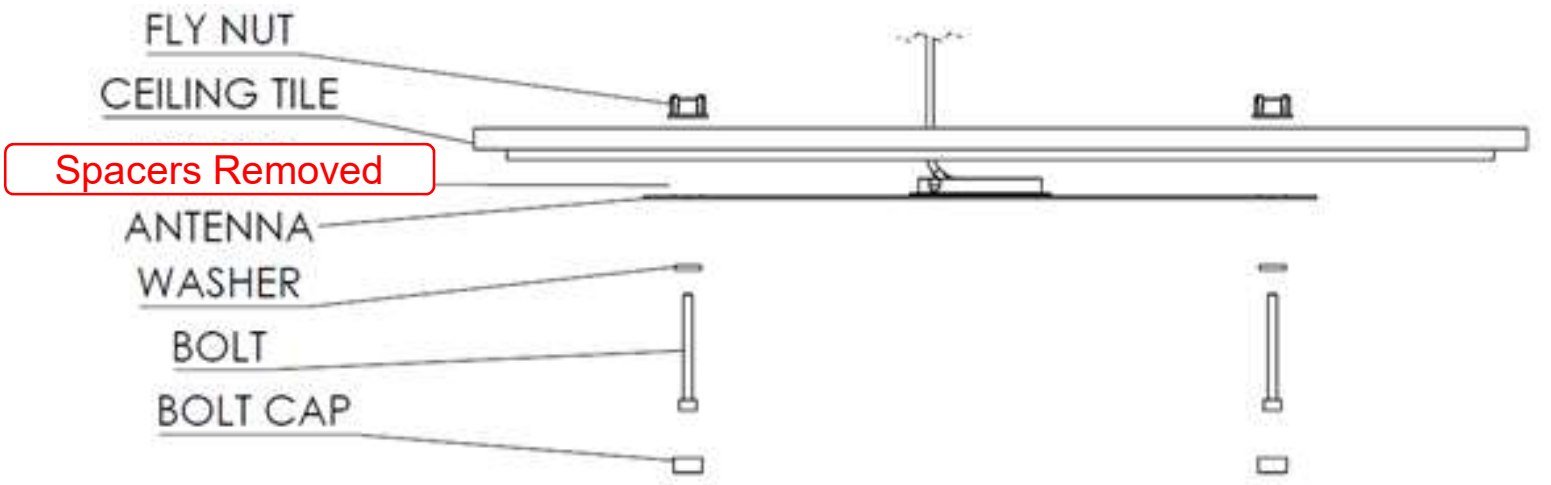
**Series:** V-Thinity

**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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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.