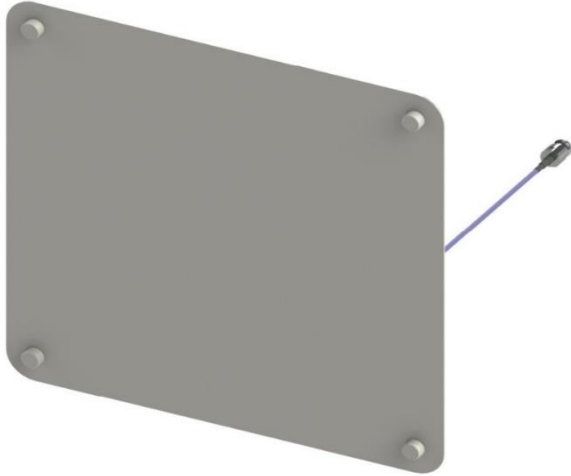


**Description:** In Building Public Safety  
Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

**PART NUMBER:** PSIBVU78 / PSIBVU78IP



Installed Antenna

**Features:**

- Wide Bandwidth VHF, UHF, 7/800
  - 132-174 MHz
  - 380-570 MHz
  - 700-960 MHz
- Aesthetically pleasing:
  - 1.5mm (0.060 inch) thickness to ceiling.
- VSWR < 2:1
- Optimized to low frequency in-building environments.
- Weatherproof IP65 model available

**Applications:**

- In Building Repeater Systems
  - Bi-Directional Amplifiers
- Police, Fire, Government critical communication enhancement
- Low-profile ceiling mounting
- Enhanced for In-building:
  - Modest Gain
  - Multi-Floor coverage
  - Avoid nulls of traditional dipoles.

All dimensions are in mm / inches

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For more information:

Pulse Worldwide Headquarters  
12220 World Trade Drive  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
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



**Description:** In Building Public Safety  
Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

**PART NUMBER:** PSIBVU78 / PSIBVU78IP

This document covers all product variants of the following product family

Product	Ingress Protection
PSIBVU78	N.A
PSIBVU78IP	IP65

**Note:**

PSIBVU78IP is same as PSIBVU78 except applying additional epoxy to seal the antenna (PSIBVU78IP) cover to meet the IP65 rated ingress protection requirement.

Both of these 2 antennas have the same antenna performance and form factor.



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Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

**PART NUMBER:** PSIBVU78 / PSIBVU78IP

### ELECTRICAL SPECIFICATIONS.

Frequency	132-174 / 380-570 / 700-960 MHz
Nominal Impedance	50 $\Omega$
VSWR	2:1*
Power Withstand	25 watts
Connector Type	N Female
Cable Type	$\varnothing$ 4mm / 0.16"
Cable length	500mm / 19.7"

\*antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame

This antenna cannot be mounted directly on metal surface. Contact *PulseLarsen* at [antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) for any needed technical installation supportc

**Description:** In Building Public Safety  
Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

**PART NUMBER:** PSIBVU78 / PSIBVU78IP

### MECHANICAL SPECIFICATIONS.

Color	White
Weight:	675 grams
Cable retention: Pull off	30 N
Fixing system	4pcs M6 hex slot bolt & nut

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 - 85° C
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 +85 C 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
Chemical resistance	MIL STD 810G
Drop test	Top, bottom, side. 3 times/orientation, 40"
Package drop	All faces & corners, 40"

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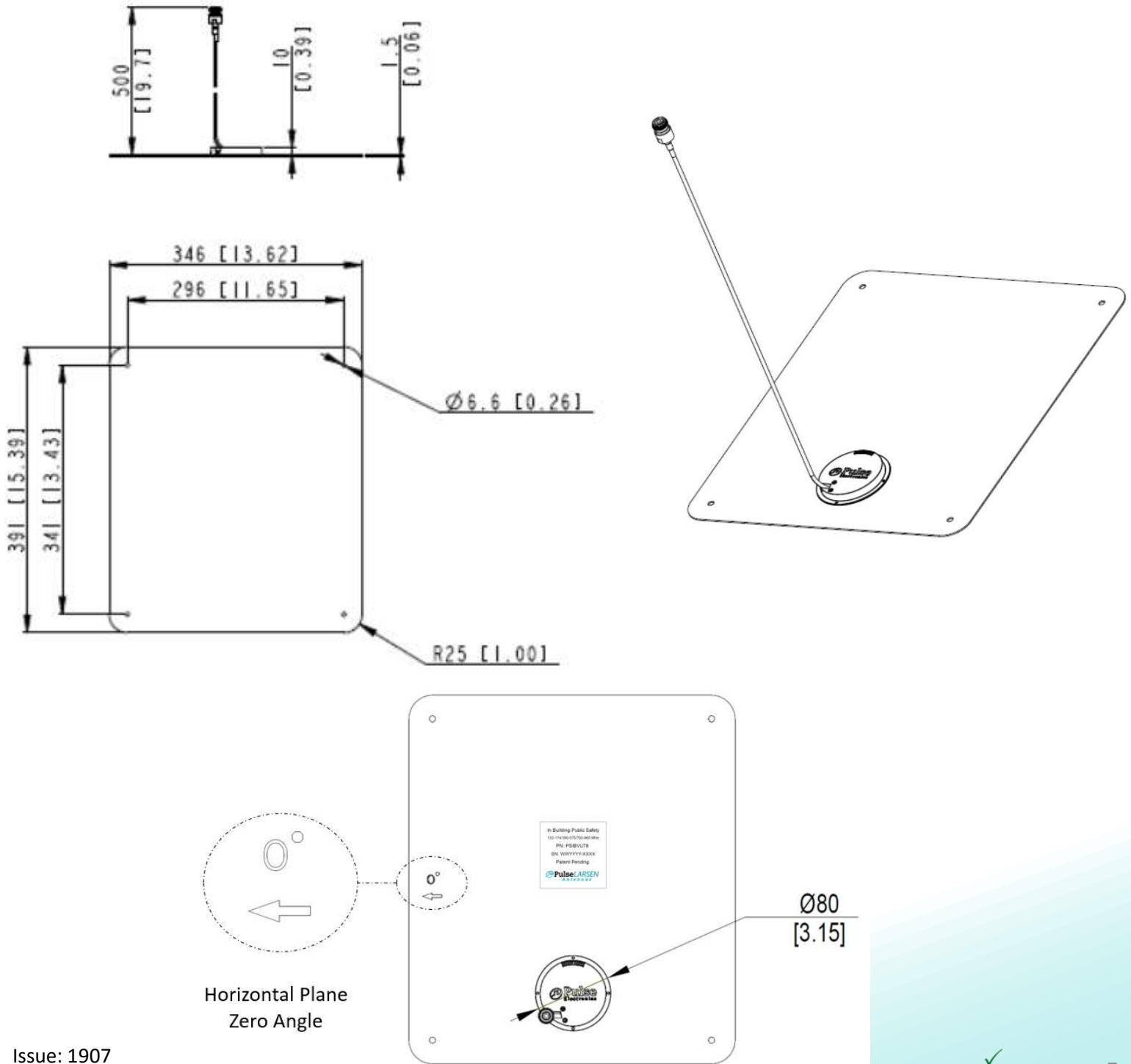
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Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

**PART NUMBER:** PSIBVU78 / PSIBVU78IP

**MECHANICAL DRAWING**



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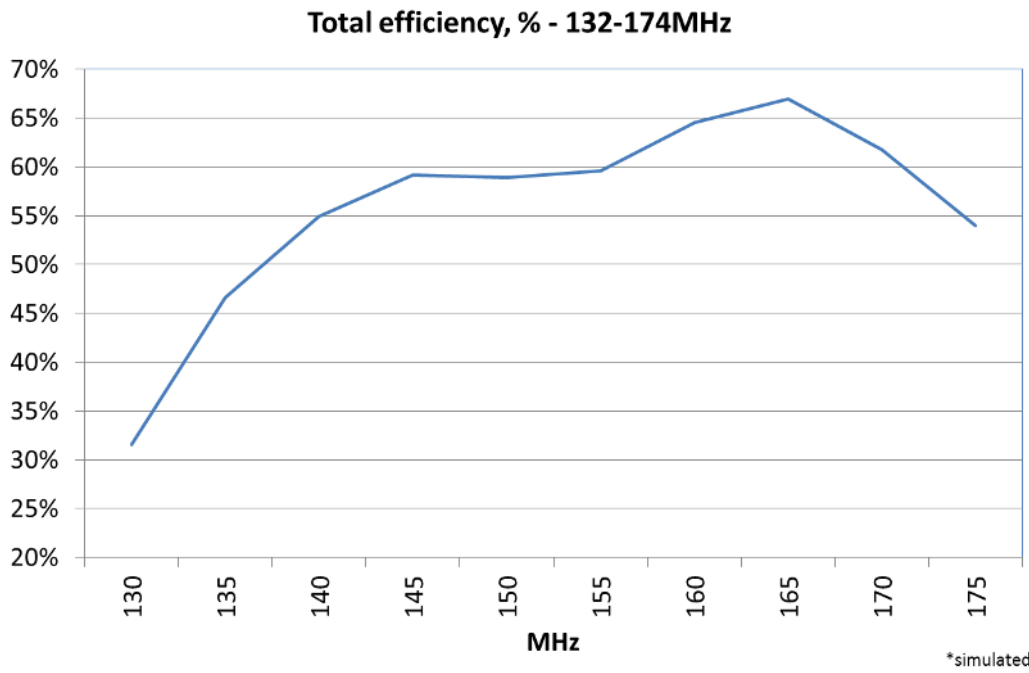
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**Description:** In Building Public Safety  
Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

**PART NUMBER:** PSIBVU78 / PSIBVU78IP

**CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame**



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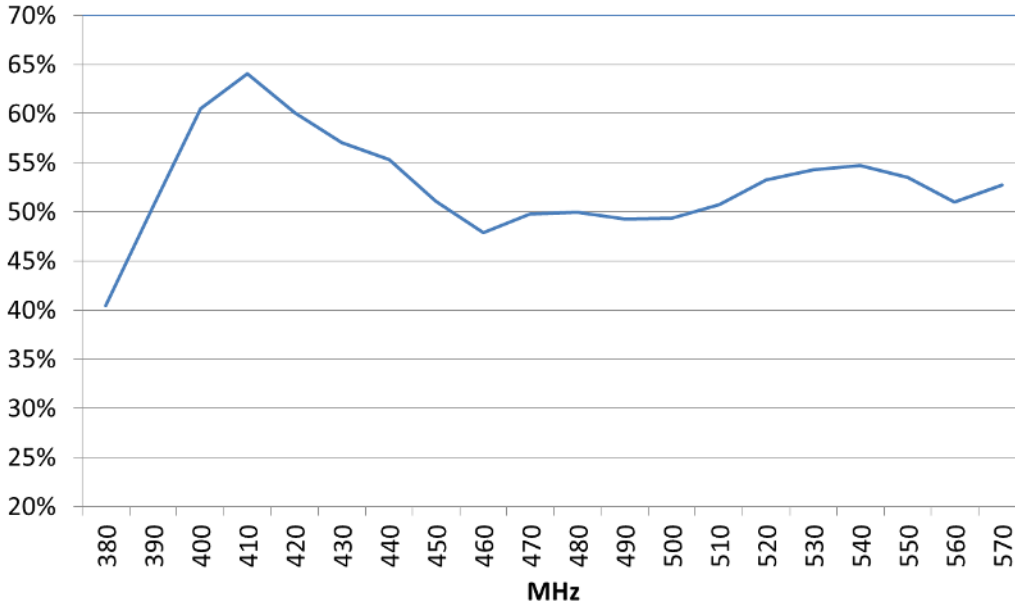
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Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

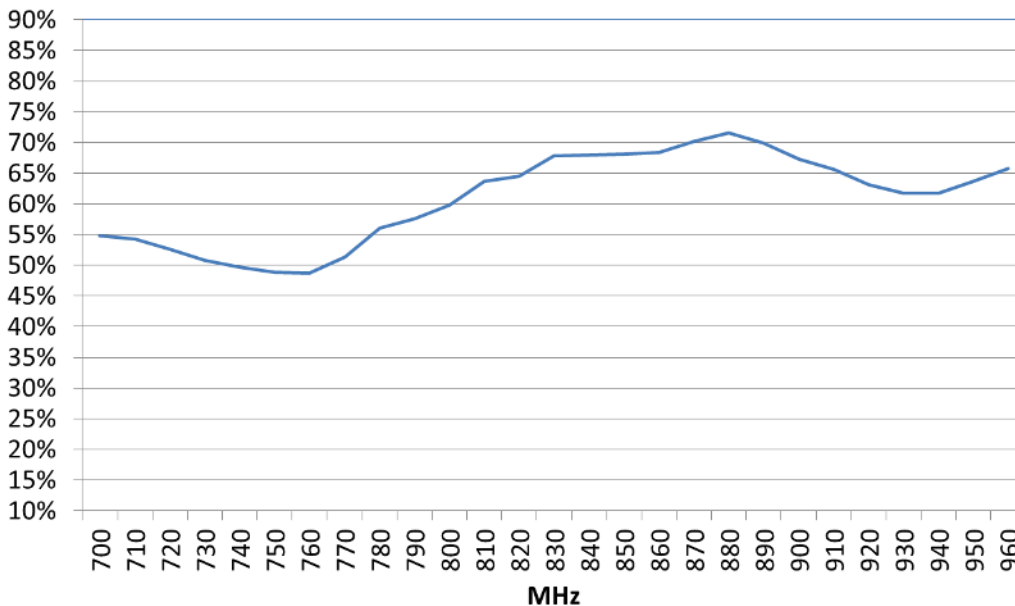
**PART NUMBER:** PSIBVU78 / PSIBVU78IP

**CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame**

**Total efficiency, % - 380-570MHz**



**Total efficiency, % - 700-960MHz**



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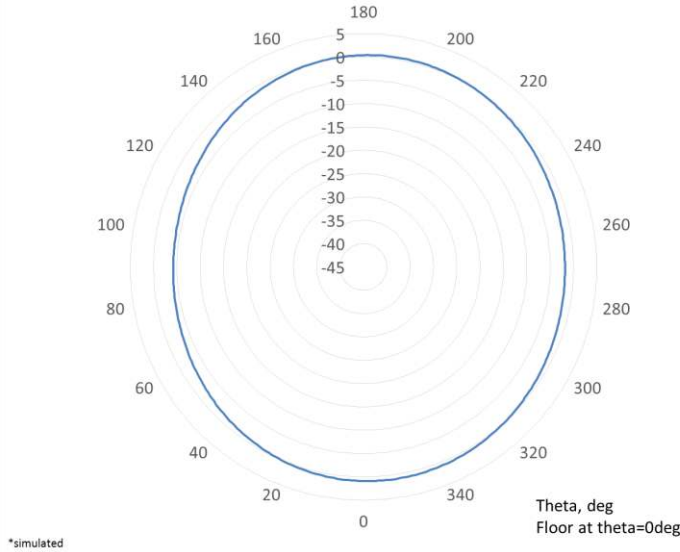
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Antenna 132-174 / 380-570 / 700-960 MHz

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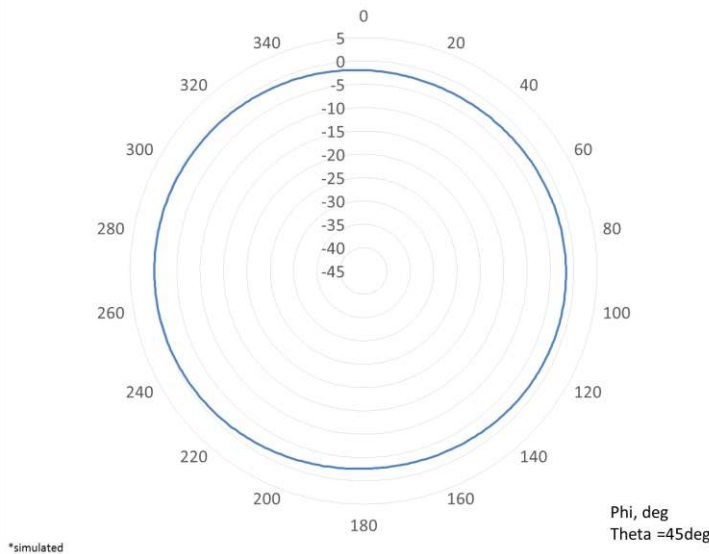
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**CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame**

Vertical plane 132-174MHz



Horizontal plane 132-174MHz



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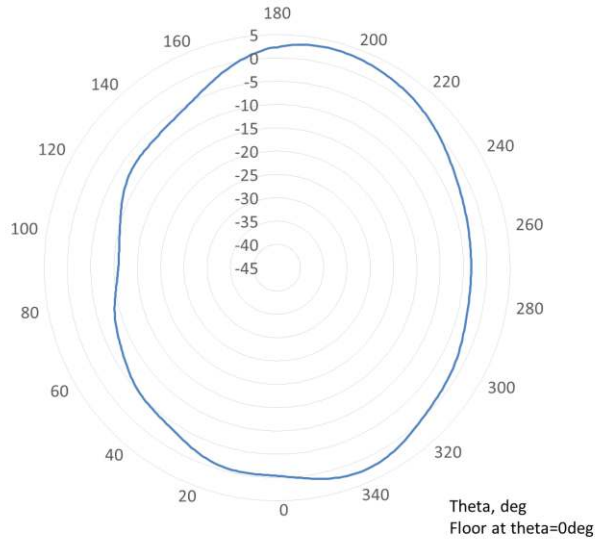
**Description:** In Building Public Safety  
Antenna 132-174 / 380-570 / 700-960 MHz

**Series:** V-Thinity V/H/7/8

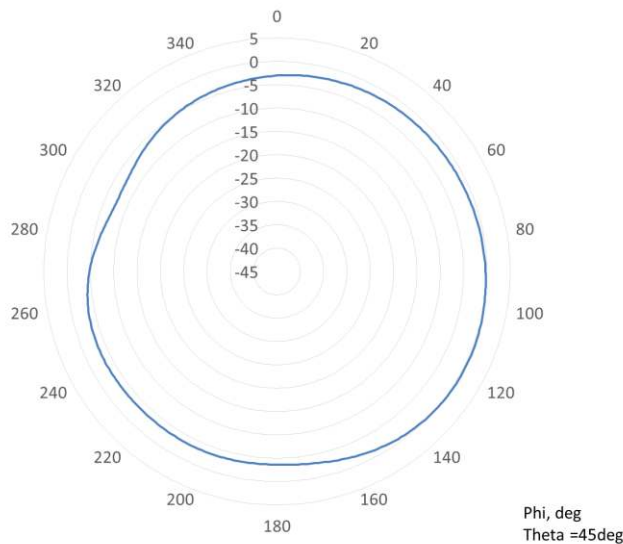
**PART NUMBER:** PSIBVU78 / PSIBVU78IP

**CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame**

Vertical plane 380-570MHz



Horizontal plane 380-570MHz



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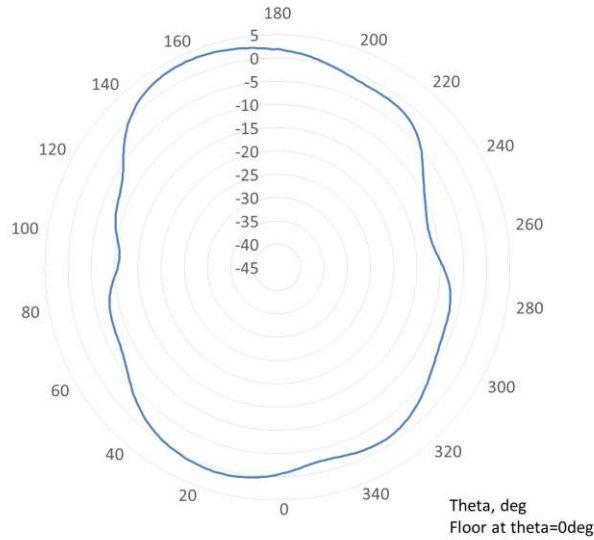
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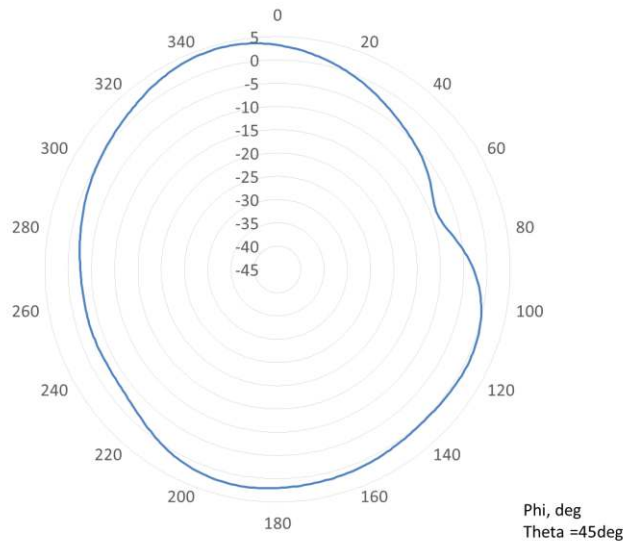
**PART NUMBER:** PSIBVU78 / PSIBVU78IP

**CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame**

Vertical plane 700-960MHz



Horizontal plane 700-960MHz



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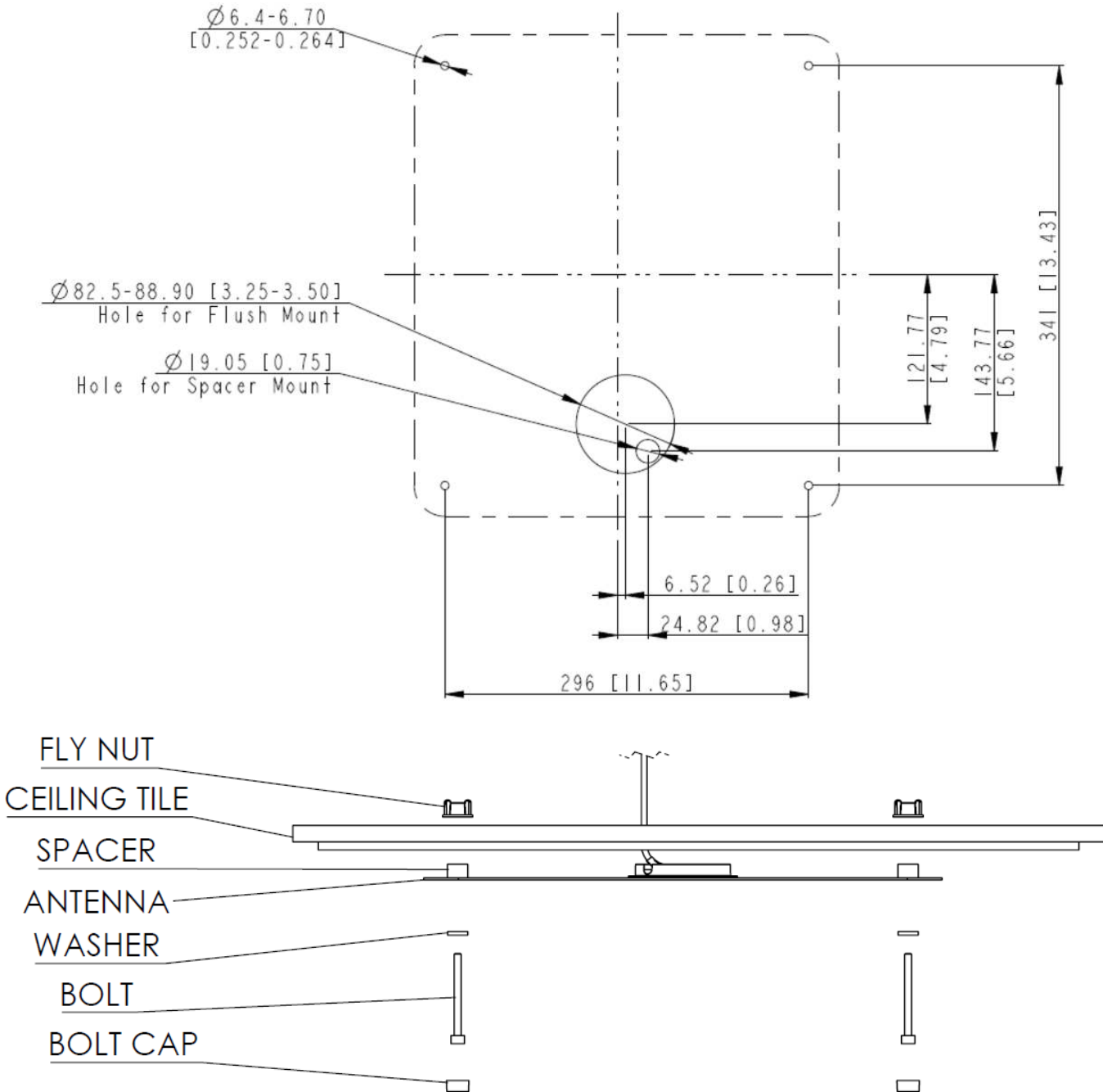


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**ASSEMBLY**



\* Spacer to be used in gypsum & concrete installations

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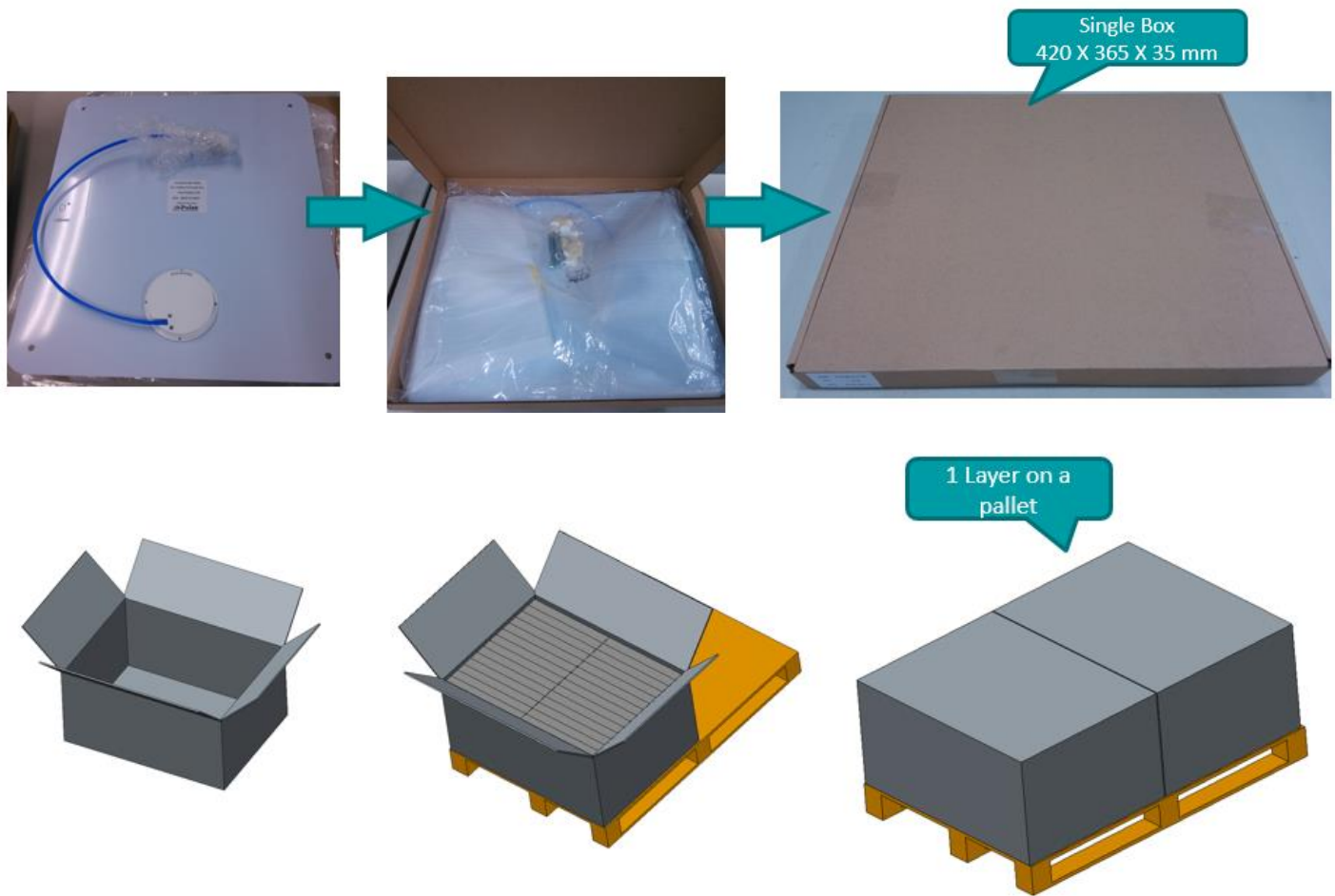
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**Packaging**

- 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 packed in a master carton.
- 1 label on each carton with Qty, Part number, Date code.



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