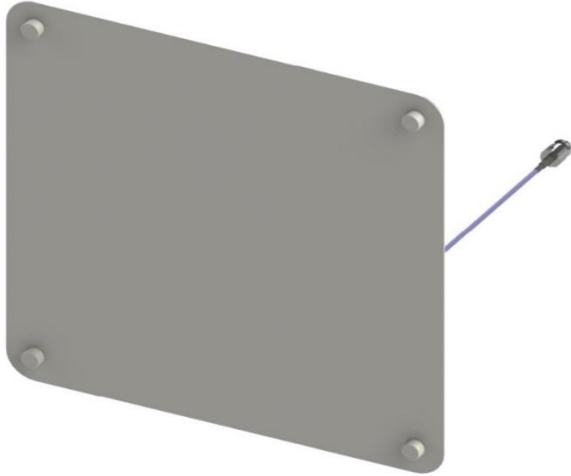


Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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

Issue: 1907

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

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For more information:

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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th 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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Description: In Building Public Safety
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 Ω |
| 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 for any needed technical installation support

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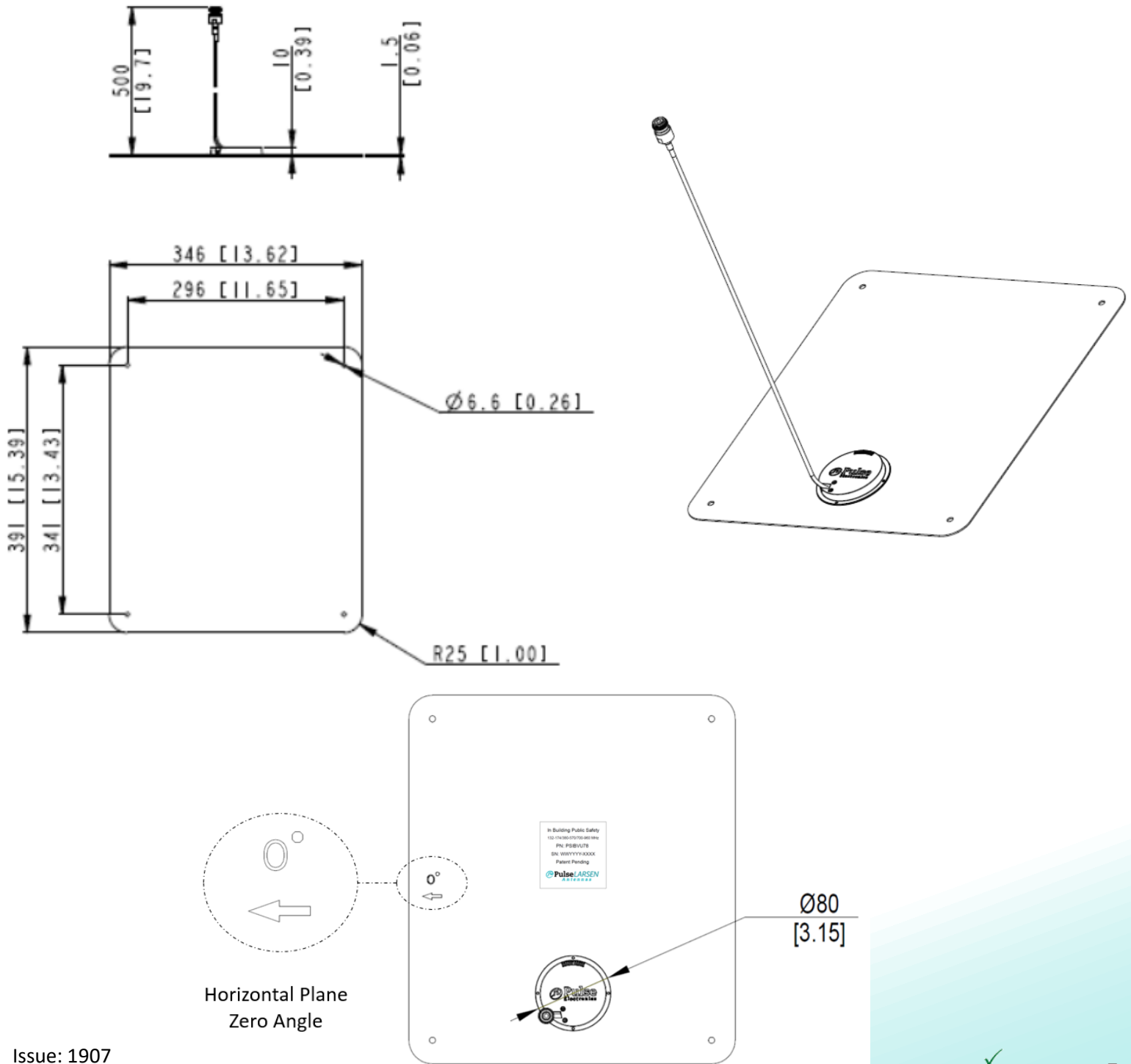
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Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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

PART NUMBER: PSIBVU78 / PSIBVU78IP

MECHANICAL DRAWING



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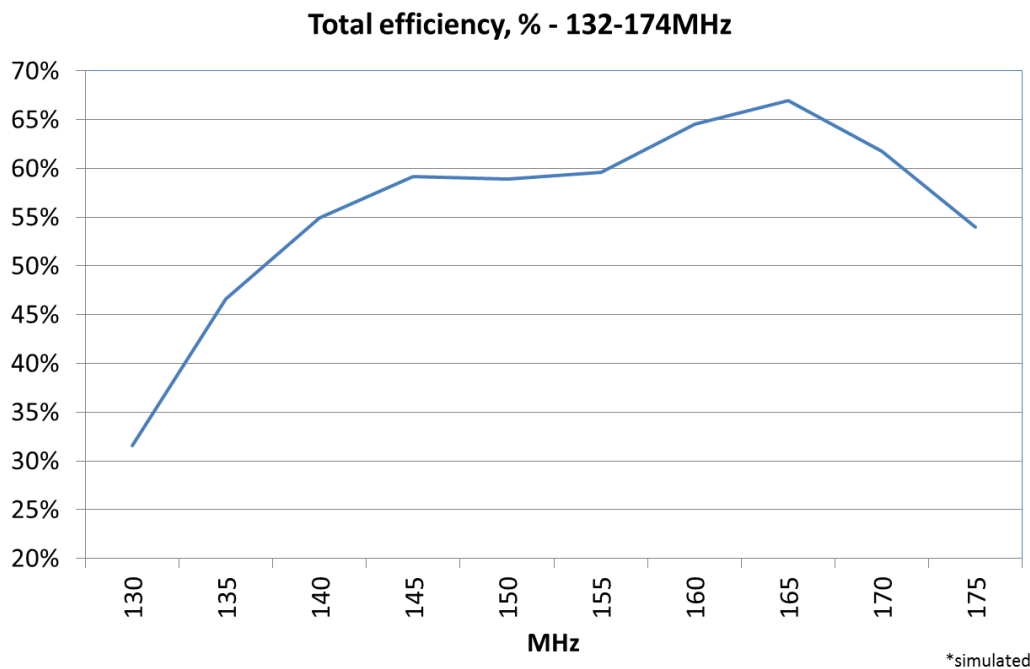
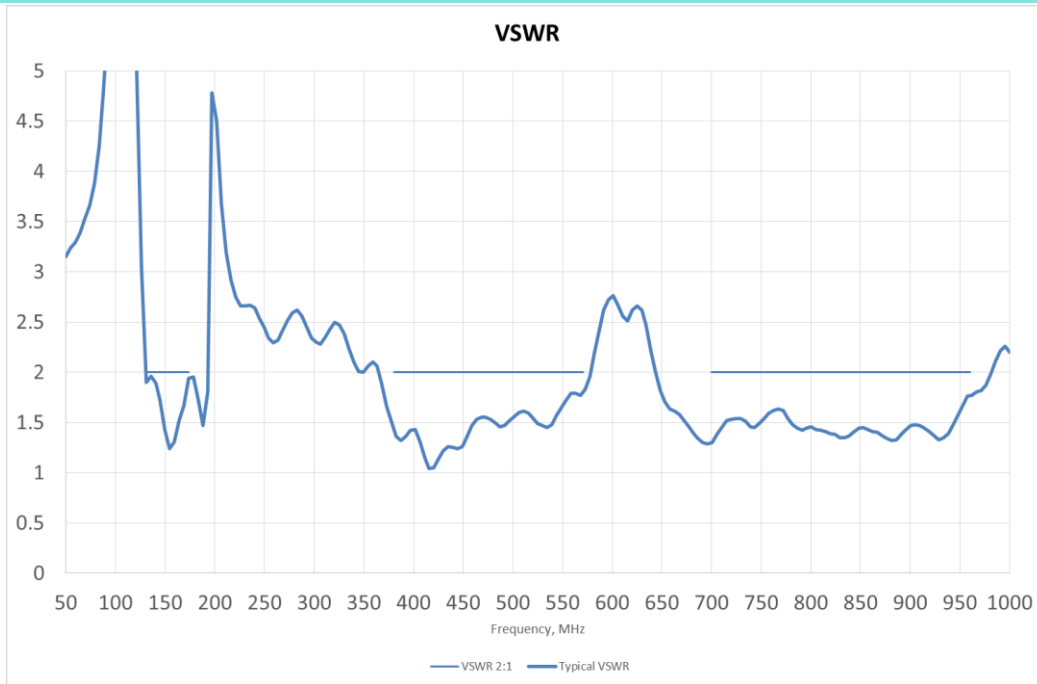
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Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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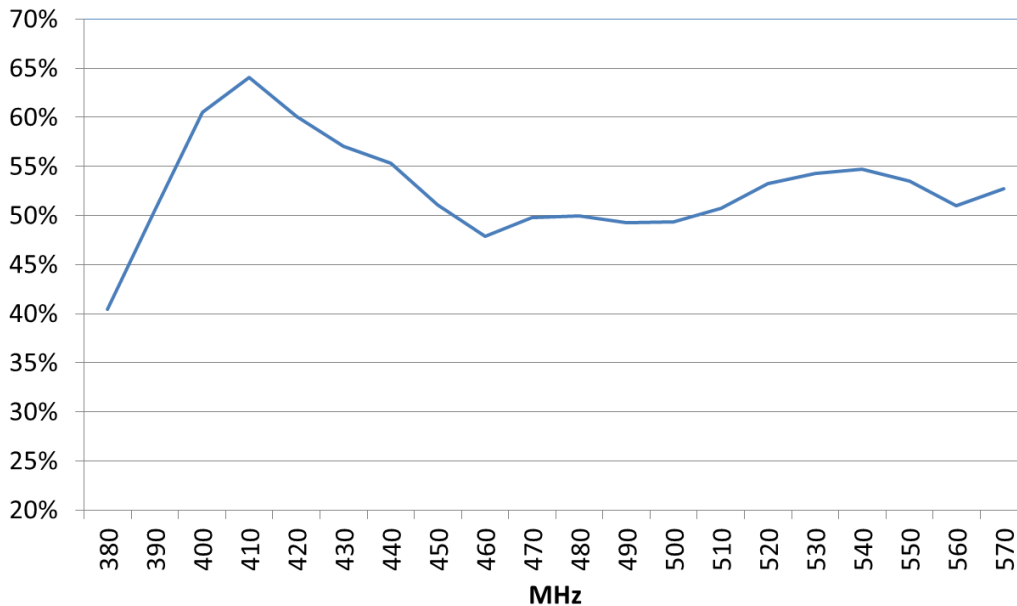
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Antenna 132-174 / 380-570 / 700-960 MHz

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

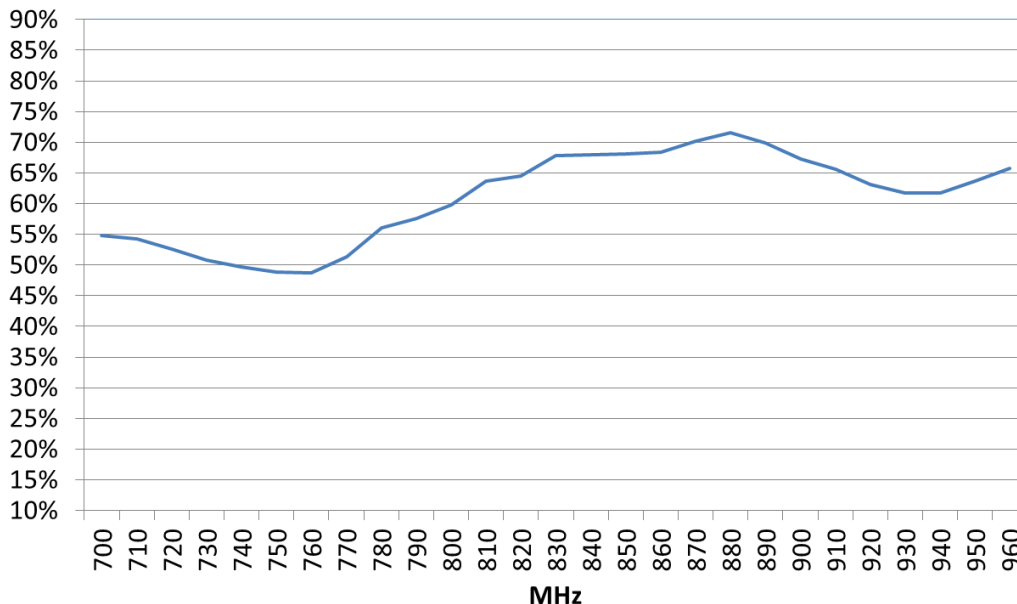
PART NUMBER: PSIBVU78 / PSIBVU78IP

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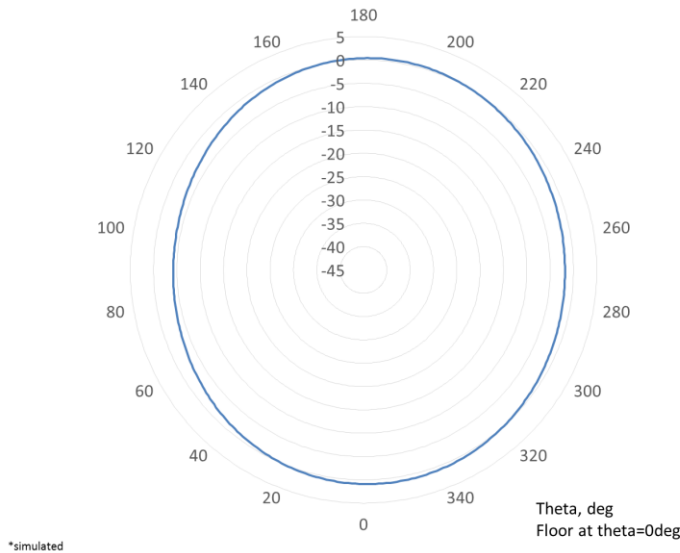
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Antenna 132-174 / 380-570 / 700-960 MHz

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

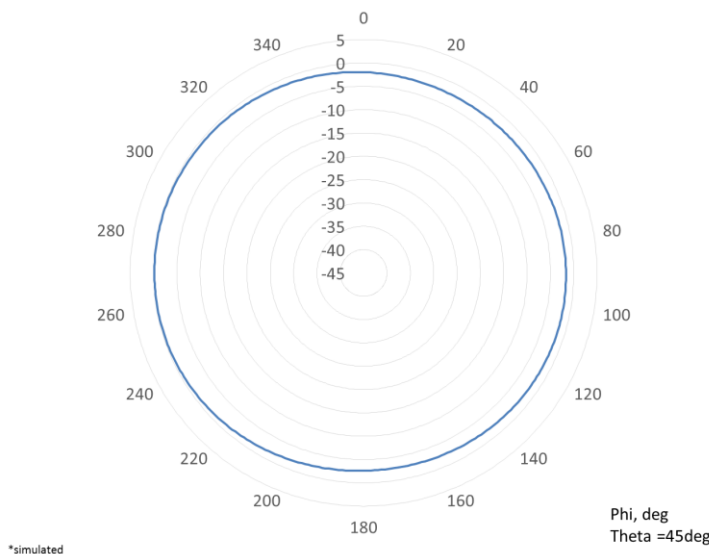
PART NUMBER: PSIBVU78 / PSIBVU78IP

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

Vertical plane 132-174MHz



Horizontal plane 132-174MHz



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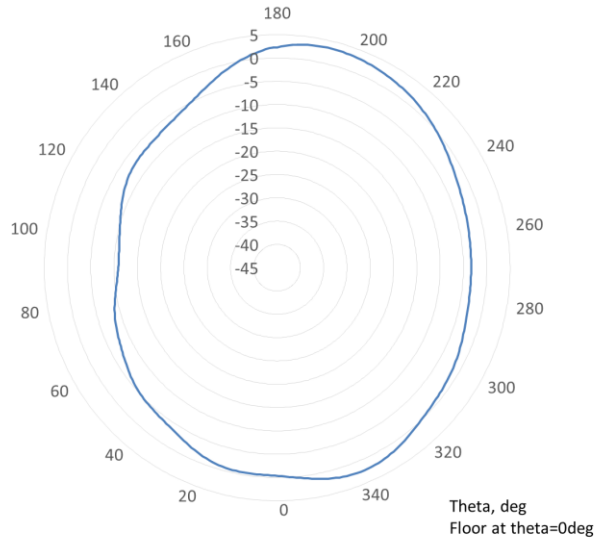
Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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

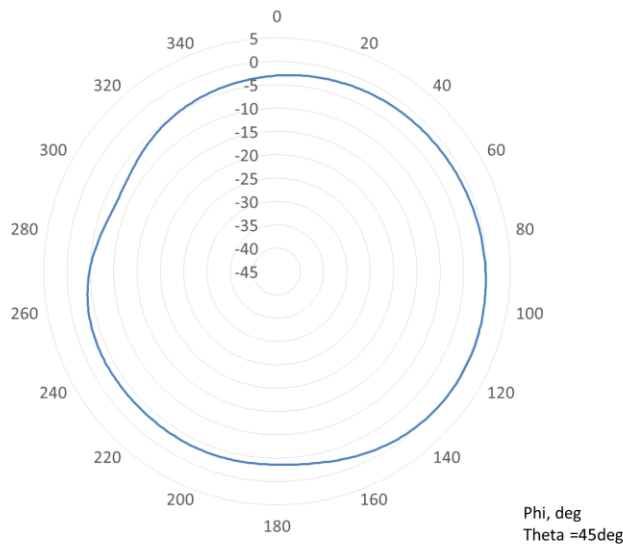
PART NUMBER: PSIBVU78 / PSIBVU78IP

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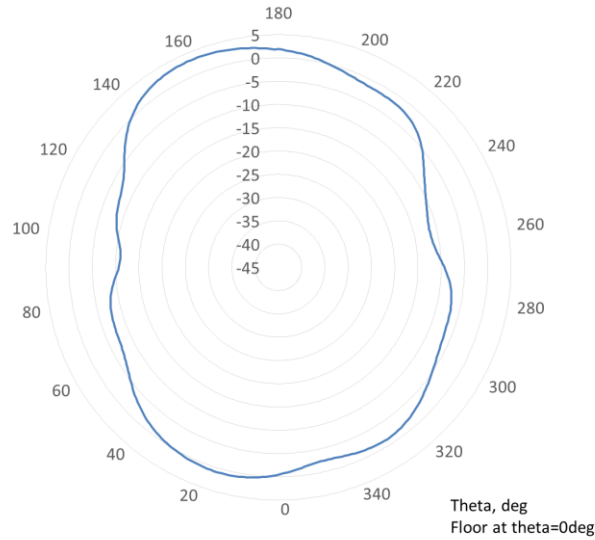
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 Antenna 132-174 / 380-570 / 700-960 MHz

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

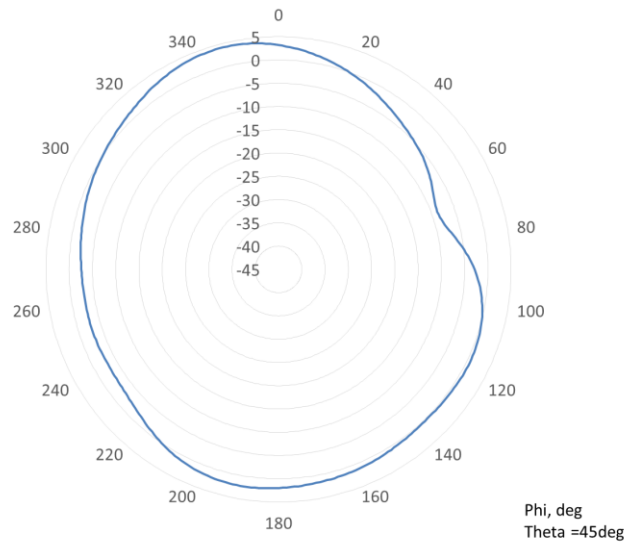
PART NUMBER: PSIBVU78 / PSIBVU78IP

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

Vertical plane 700-960MHz



Horizontal plane 700-960MHz



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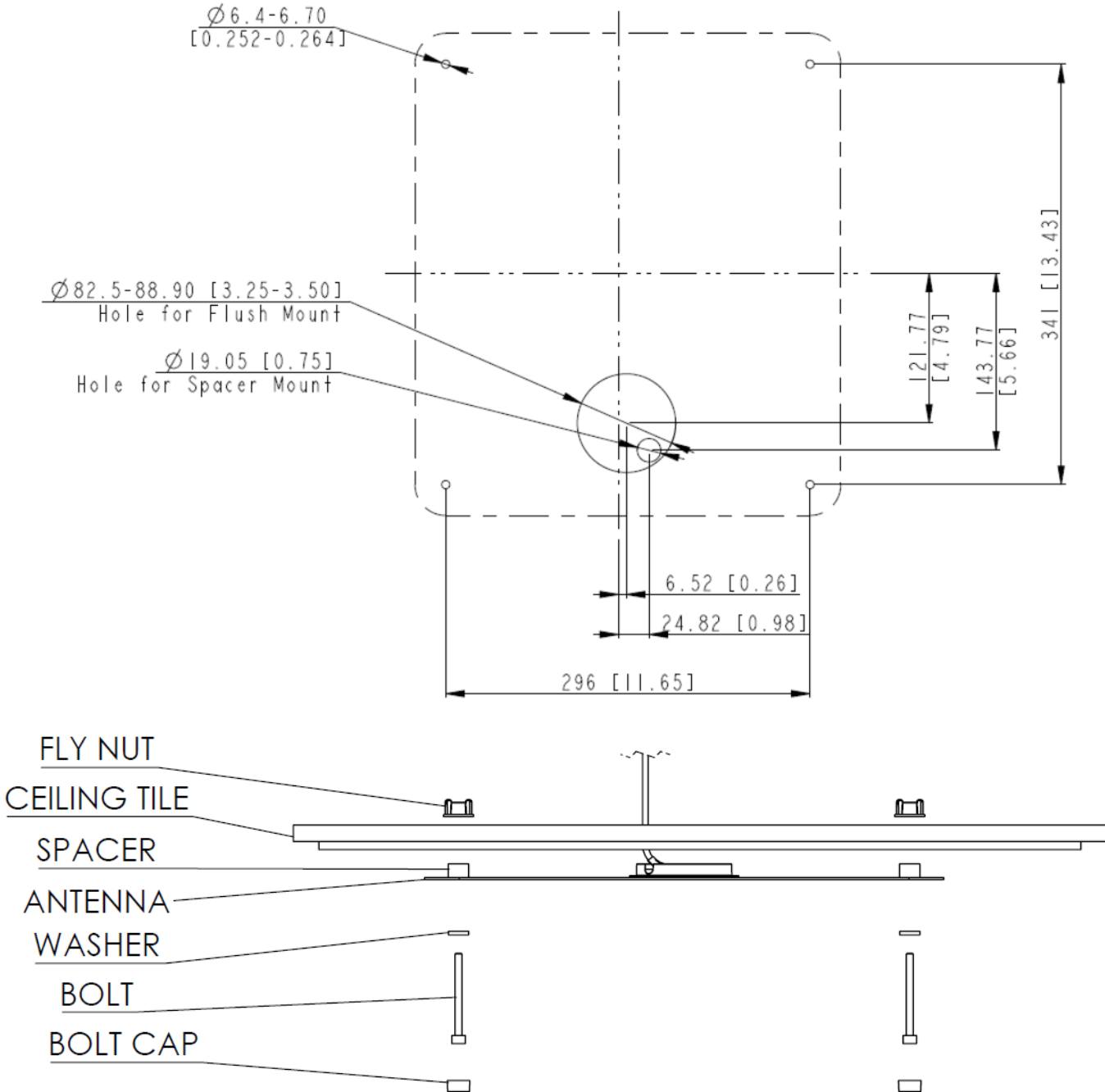
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ASSEMBLY



* Spacer to be used in gypsum & concrete installations

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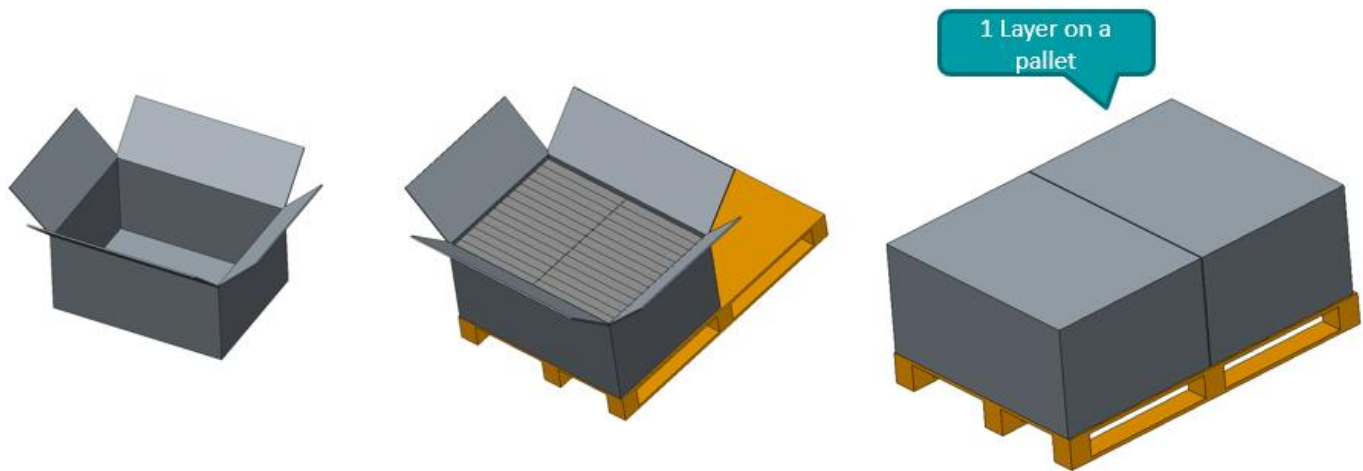
Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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

PART NUMBER: PSIBVU78 / PSIBVU78IP

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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