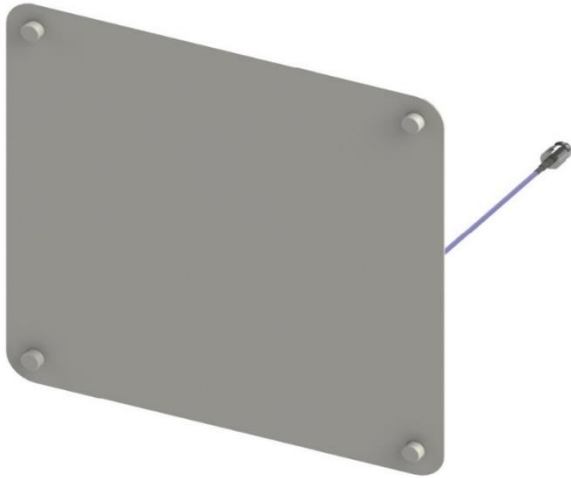


Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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

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Pulse (Suzhou) Wireless Products Co, Inc.
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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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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

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 Ω
VSWR	2:1*
Power Withstand	25 watts
Connector Type	N Female
Cable Type	Ø 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 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"

Issue: 1907

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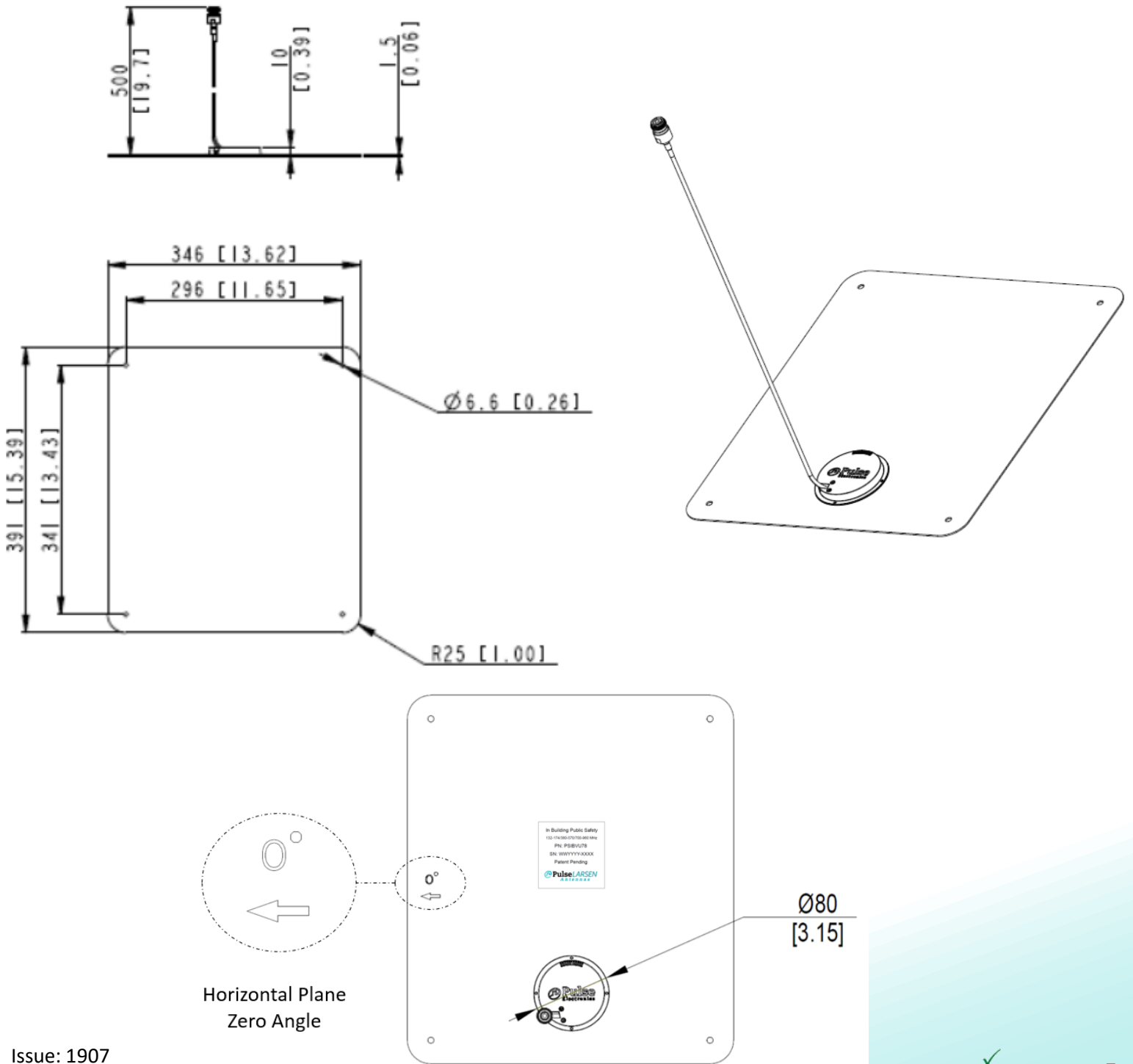
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Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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

PART NUMBER: PSIBVU78 / PSIBVU78IP

MECHANICAL DRAWING



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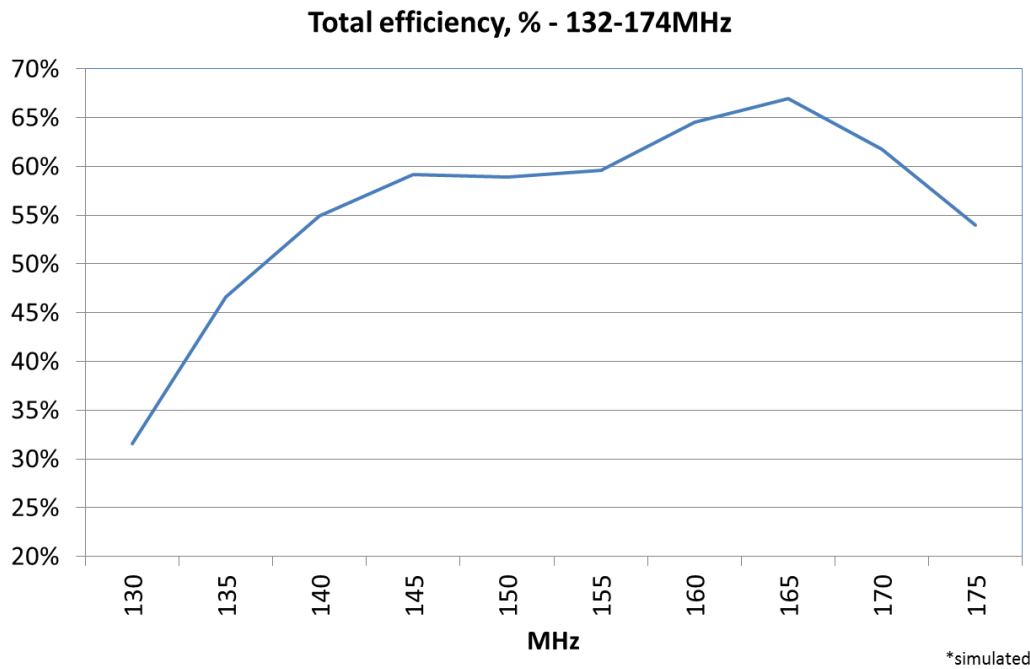
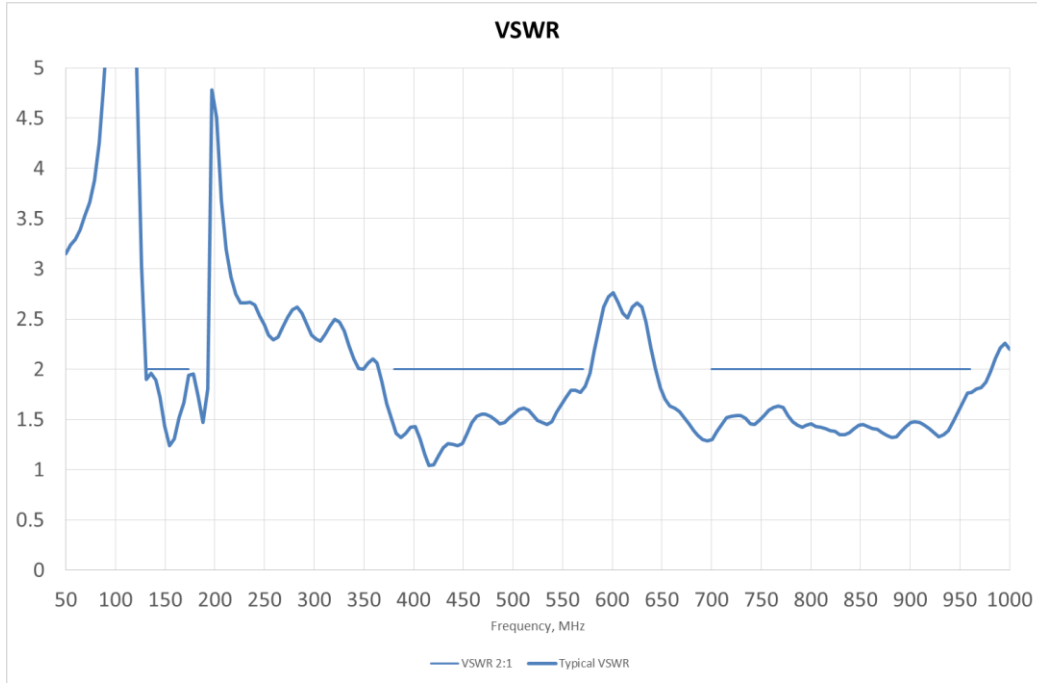
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Description: In Building Public Safety
Antenna 132-174 / 380-570 / 700-960 MHz

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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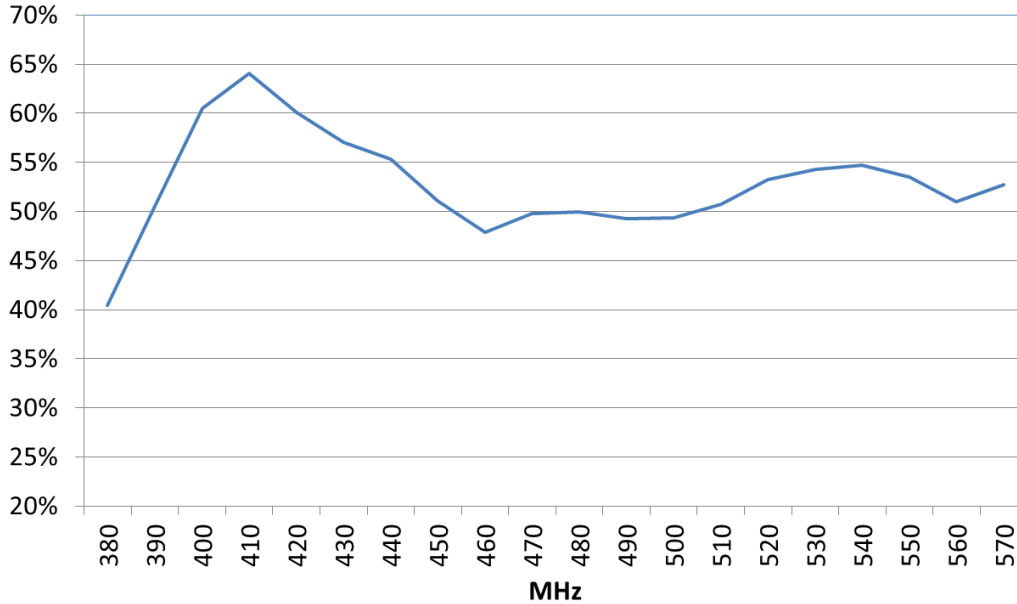
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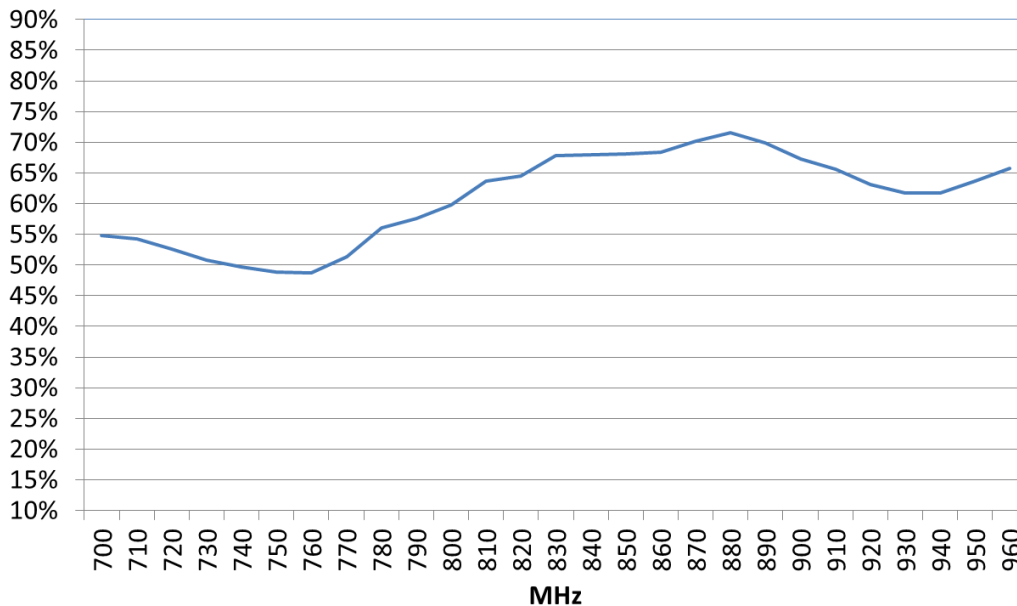
PART NUMBER: PSIBVU78 / PSIBVU78IP

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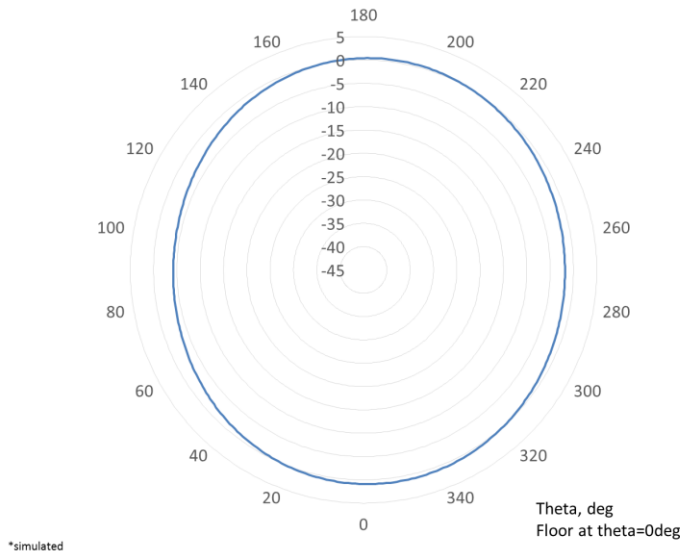
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Antenna 132-174 / 380-570 / 700-960 MHz

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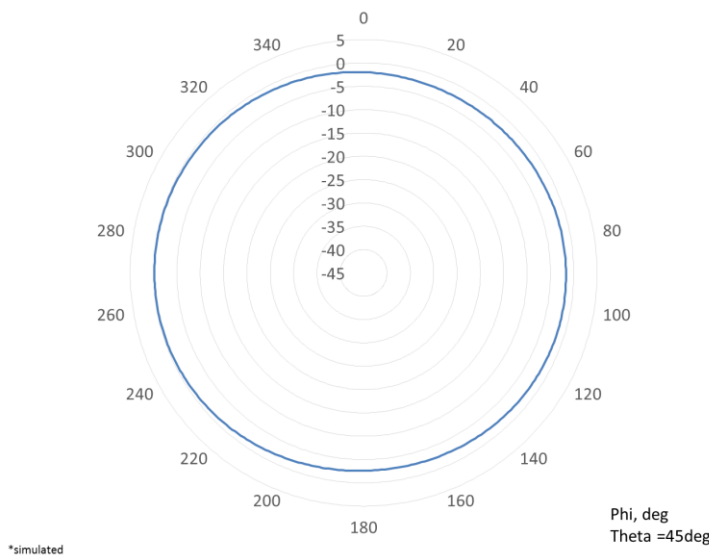
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CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame

Vertical plane 132-174MHz



Horizontal plane 132-174MHz



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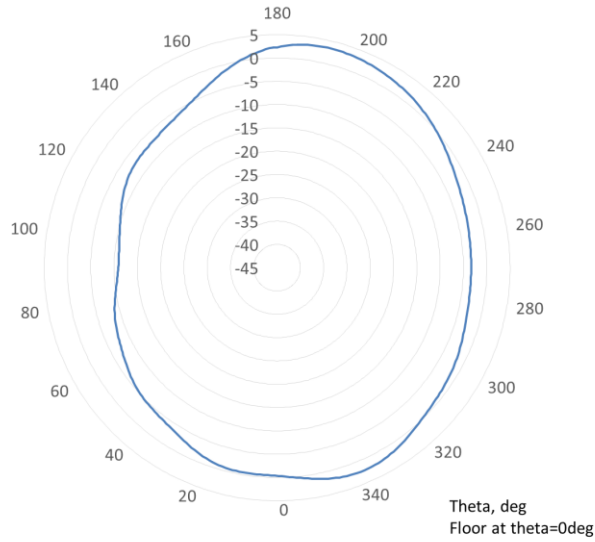
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Antenna 132-174 / 380-570 / 700-960 MHz

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

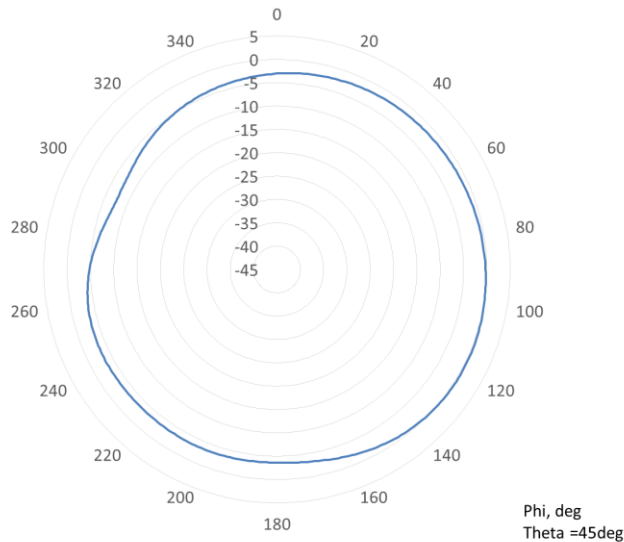
PART NUMBER: PSIBVU78 / PSIBVU78IP

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

Vertical plane 380-570MHz



Horizontal plane 380-570MHz



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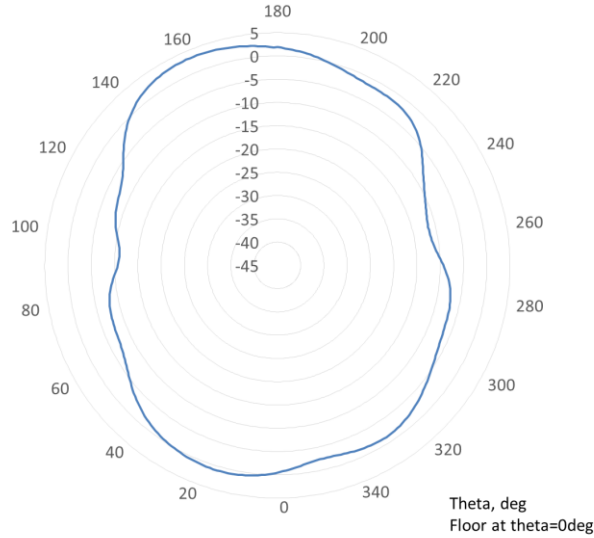
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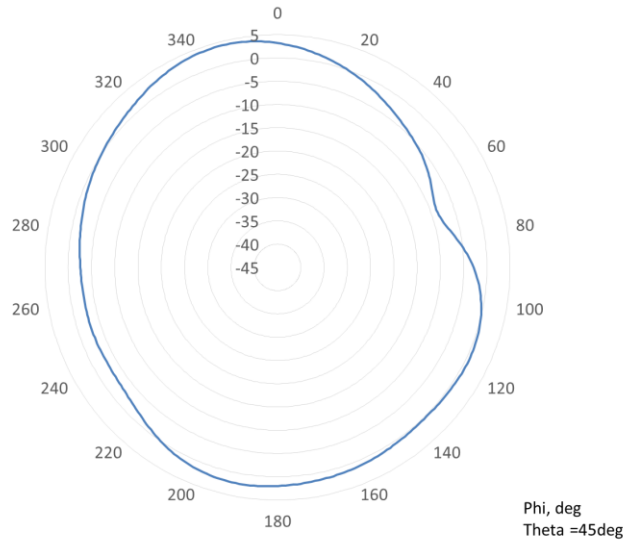
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CHARTS – antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame

Vertical plane 700-960MHz



Horizontal plane 700-960MHz



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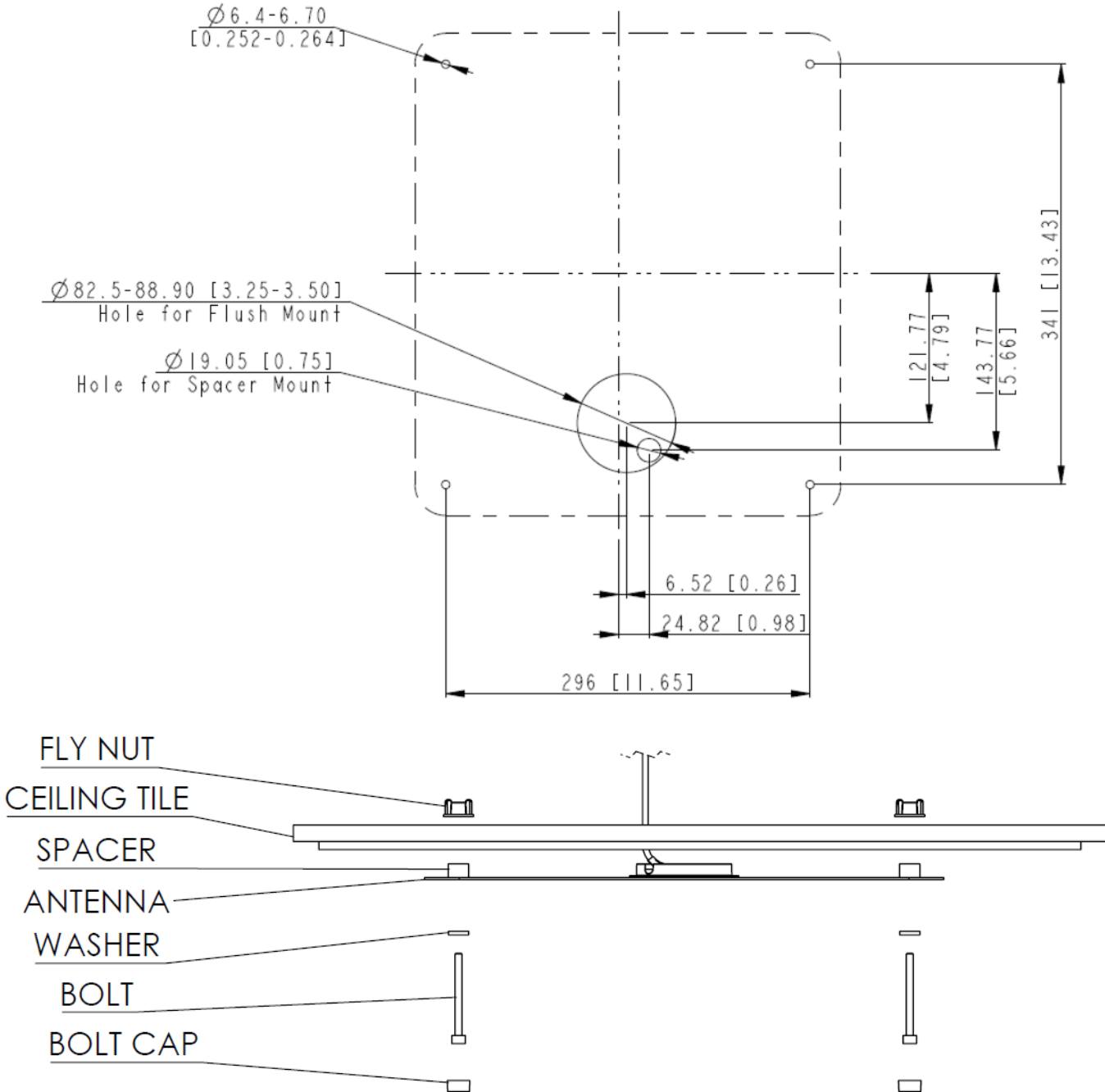
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ASSEMBLY



* Spacer to be used in gypsum & concrete installations

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