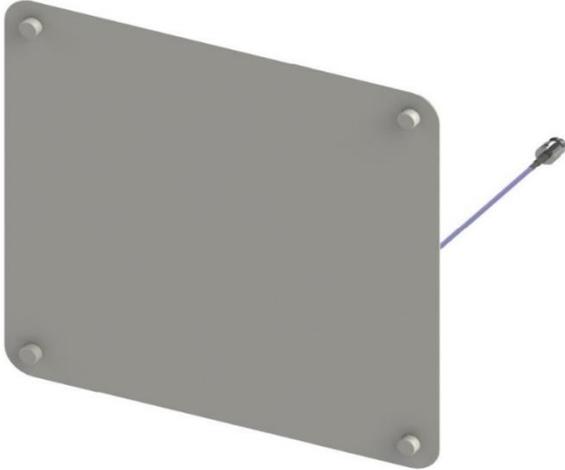


# V-Thinity V/H/6/9 In Building Public Safety Antenna

PSIBVU69 - 132-174 / 380-570 / 617-960 MHz



Installed Antenna

## Features & Applications:

- Ⓢ Wide Bandwidth VHF, UHF, 6/9
  - 132-174 MHz
  - 380-570 MHz
  - 617-960 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
- Ⓢ 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

# V-Thinity V/H/6/9 In Building Public Safety Antenna

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## ELECTRICAL SPECIFICATIONS

### General Specifications

Antenna type	Nominal Impedance	Radiation pattern	Power withstanding	DC Ground
Dipole	50Ω	Omni	25W	No

### RF Specifications

Frequency (MHz)	132 - 174	380 - 570	617 - 960
Avg. VSWR	2	2	2
Avg. Return loss (dB)	-10	-10	-10
Avg. Efficiency (%)	56	50	58

## MECHANICAL SPECIFICATIONS

Dimension radiator (Width x Length x Height)	Material	Color	Weight	Fixing system
391 x 346 x 1.5 mm (15.394 x 13.622 x 0.060 inch)	PC, CEM-3	White	675 g (1.488 lbs.)	4pcs M6 hex slot bolt & nut

Connector Type	Cable Type	Cable Length	Cable retention: Pull Off
N-female	Ø 4mm (0.157")	500mm (19.685")	30 N

## ENVIRONMENTAL SPECIFICATIONS

Storage Temperature	Operating Temperature	Ingress Protection	RoHS Compliant
MIL STD 810G: 24h at +85°C and 24h at -40°C	-40°C / +85°C	IP31	Yes

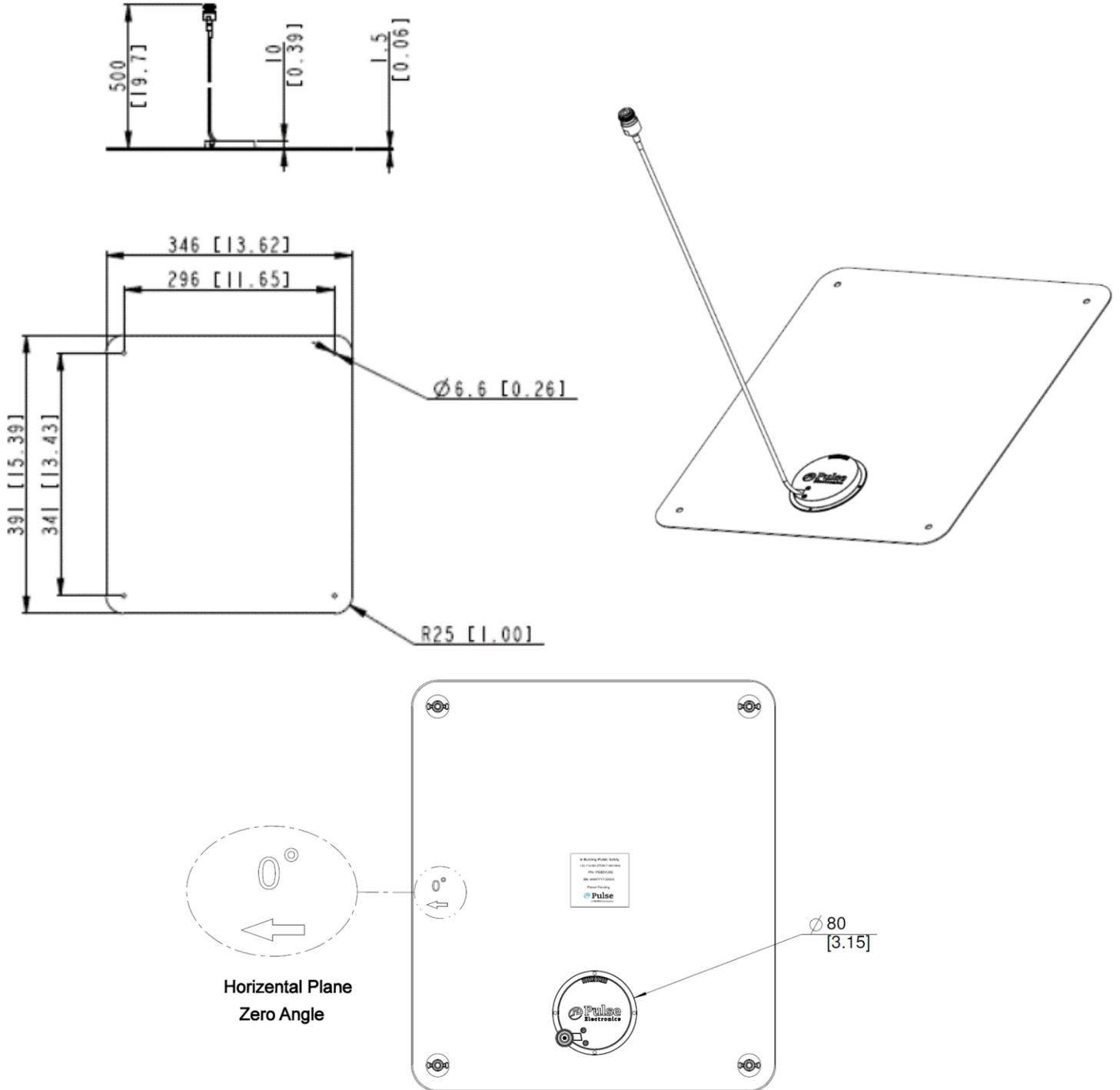
Temperature shock	Humidity	Chemical resistance
MIL STD 810G: Method 503.5, -40°C for 1 hr. to +85°C for 1 hr. @ 15°C /min rate of change 3 cycles	MIL STD 810G: 24h at +60°C and 95%RH	MIL STD 810G

Vibration	Drop Test	Package Drop
MIL STD 810G: 514.6 C-II	Top, Bottom, Side, 3 times / orientation, 40"	All faces and corners, 40"

Mechanical Drawing

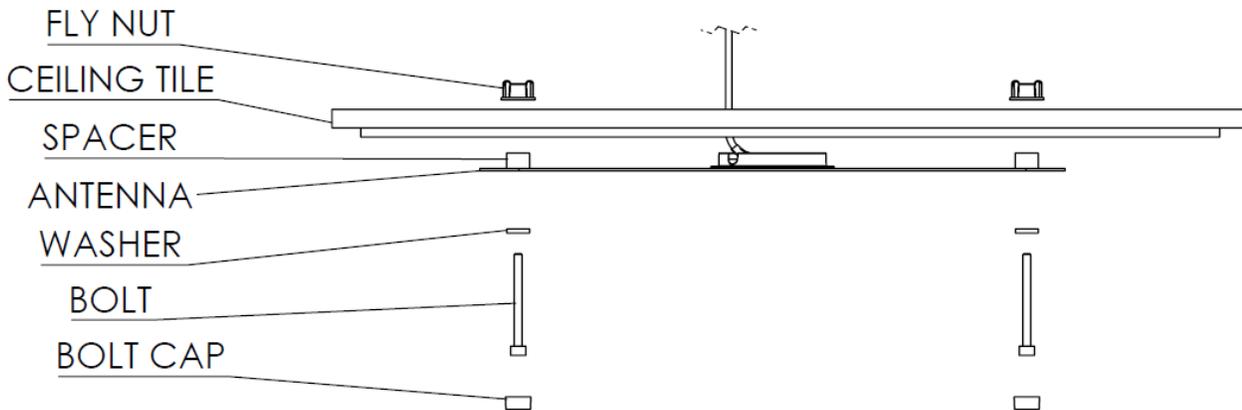
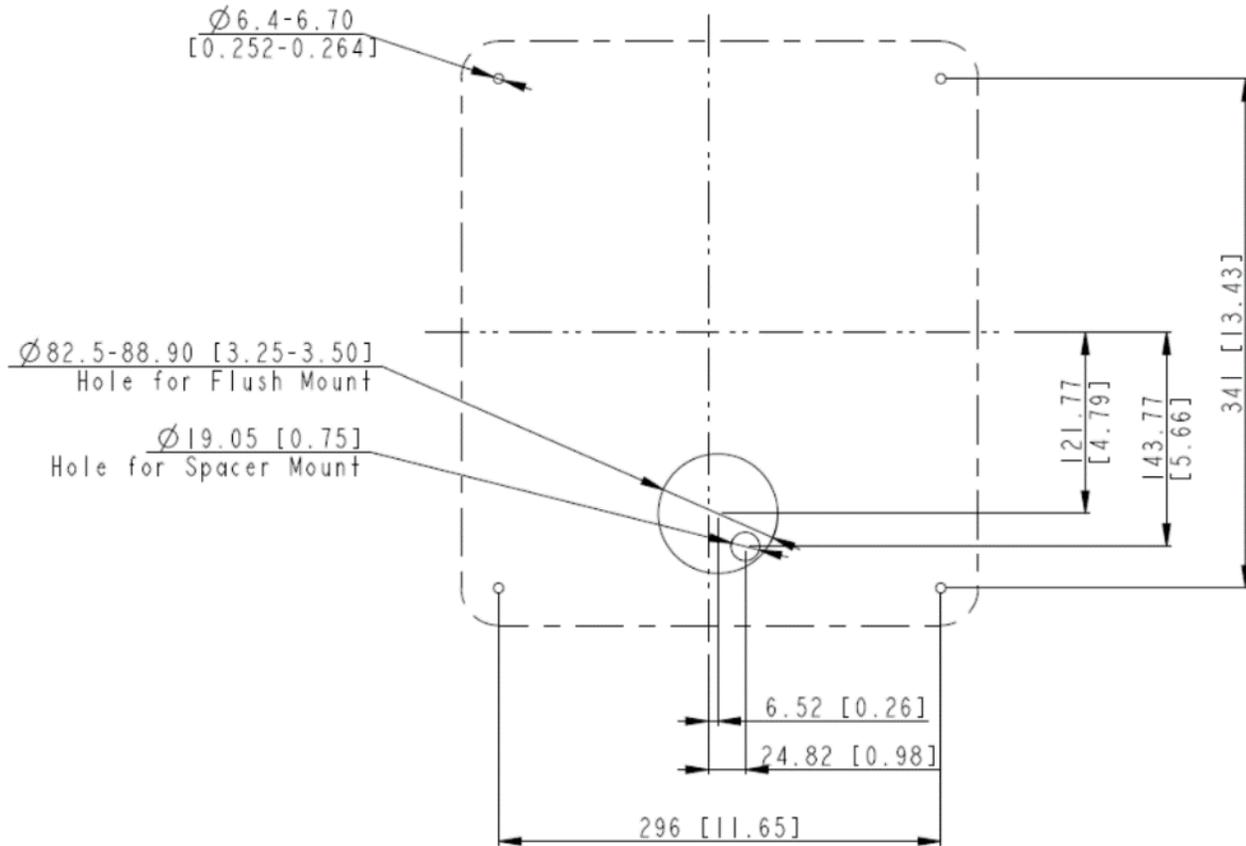
PSIBVU69



**Dimensions:** Inches (mm)  
 Unless otherwise specified, all tolerances are  $\pm 0.10$  (0.25mm)

Assembly

PSIBVU69



\* Spacer to be used in gypsum & concrete installations

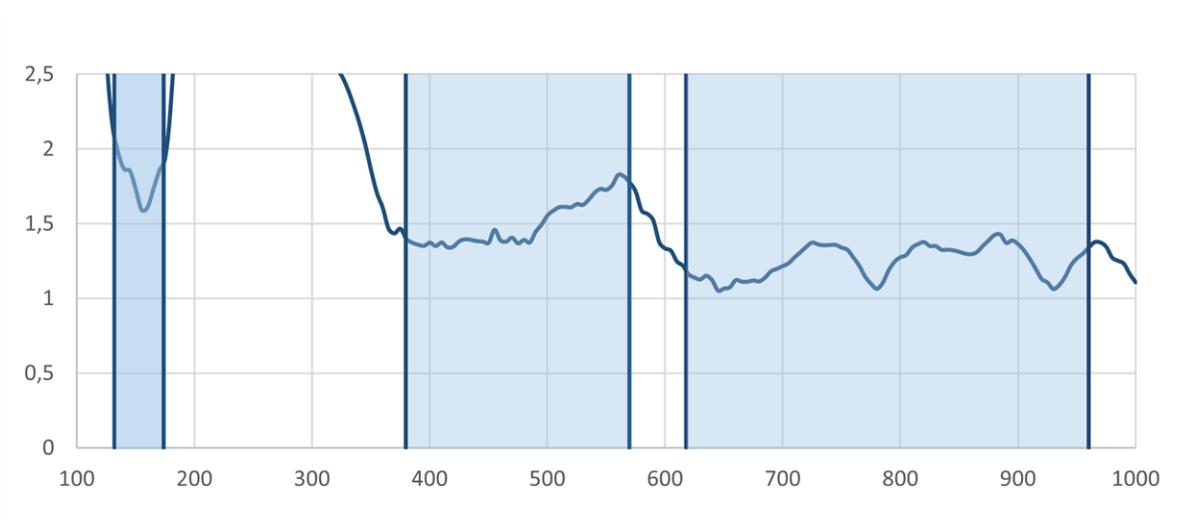
This antenna **cannot** be mounted directly on metal surface. Contact Pulse Electronics Sales for any needed technical installation support.

<https://www.pulseelectronics.com/contact/>



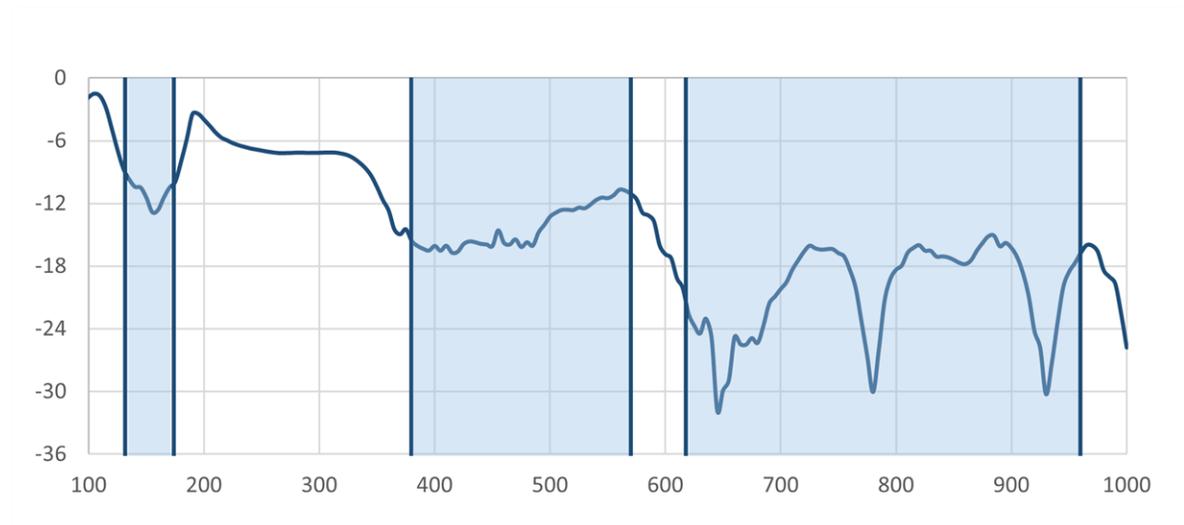
VSWR: 132-174, 380-570, 617-960 MHz

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Return Loss (dB): 132-174, 380-570, 617-960 MHz

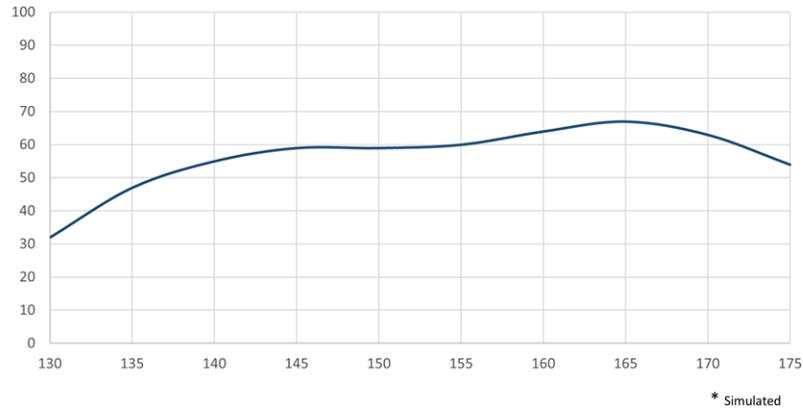
PSIBVU69



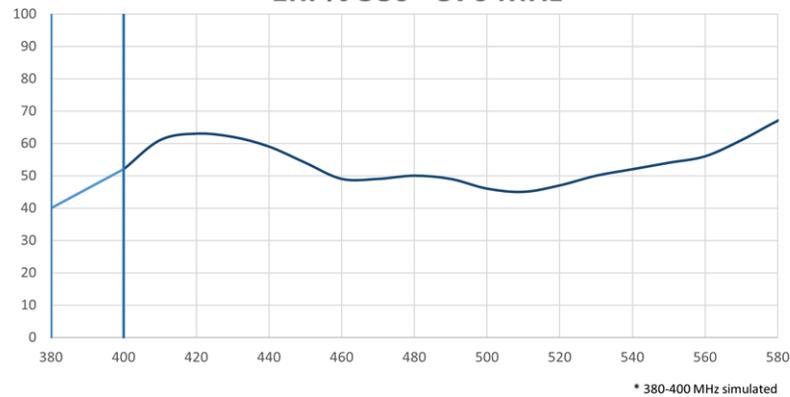
Efficiency (%): 132-174, 380-570, 617-960 MHz

PSIBVU69

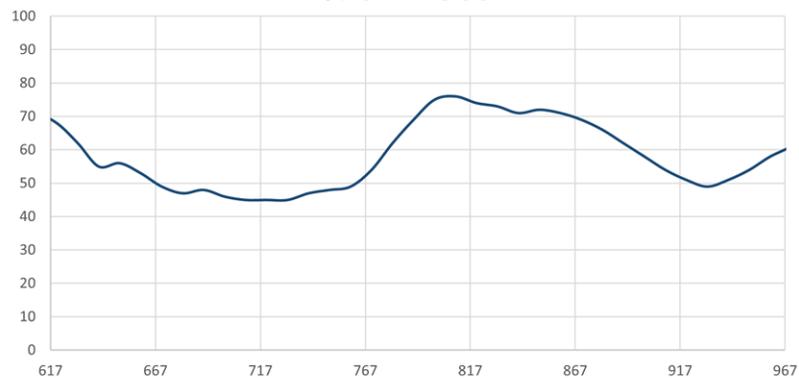
Eff. % 132 - 174 MHz\*



Eff. % 380 - 570 MHz\*



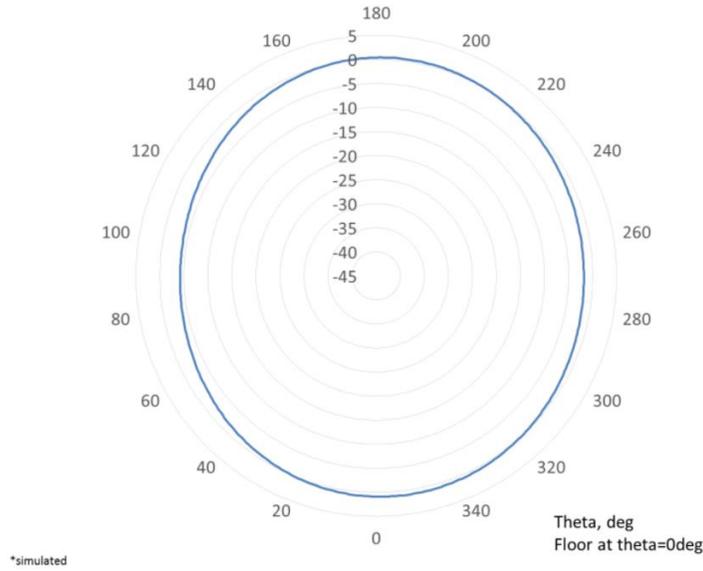
Eff. % 617 - 960 MHz



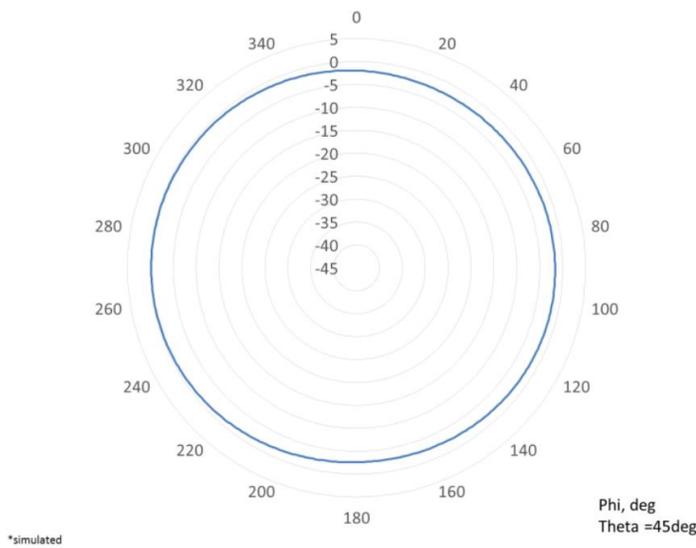
## Radiation Patterns

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### Vertical Plane 132-174 MHz



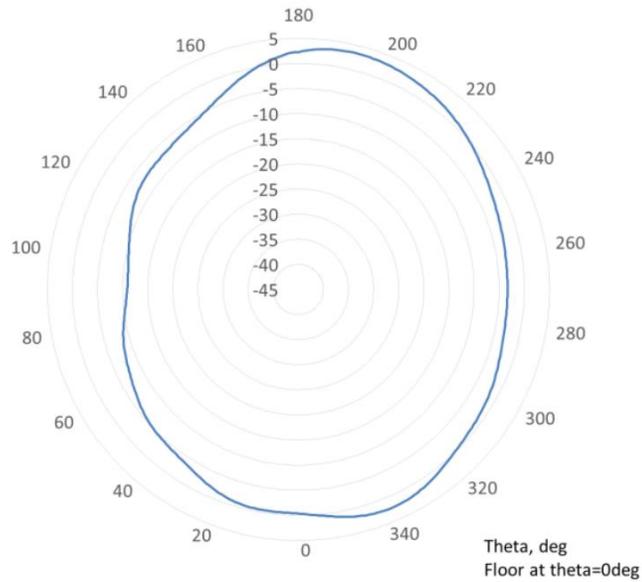
### Horizontal Plane 132-174 MHz



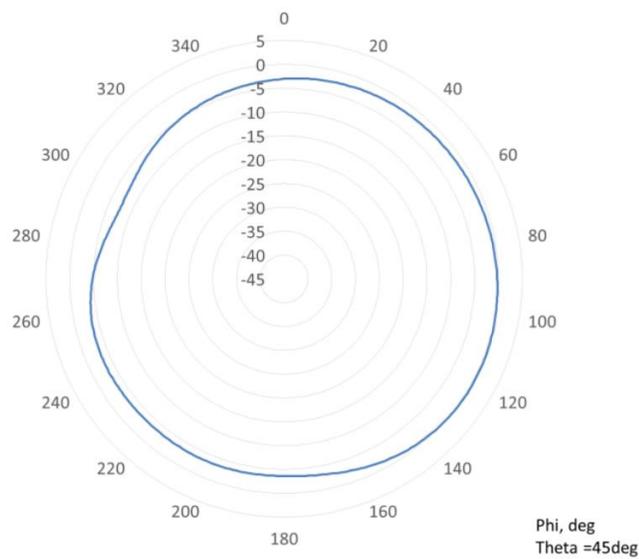
## Radiation Patterns

PSIBVU69

### Vertical Plane 380-570 MHz



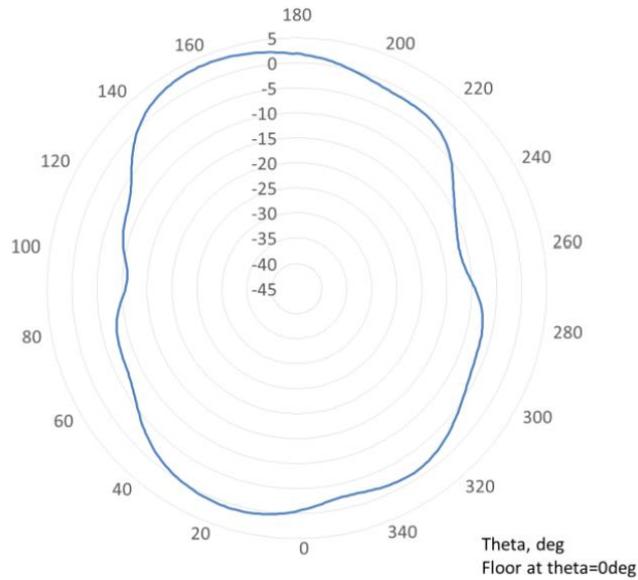
### Horizontal Plane 380-570 MHz



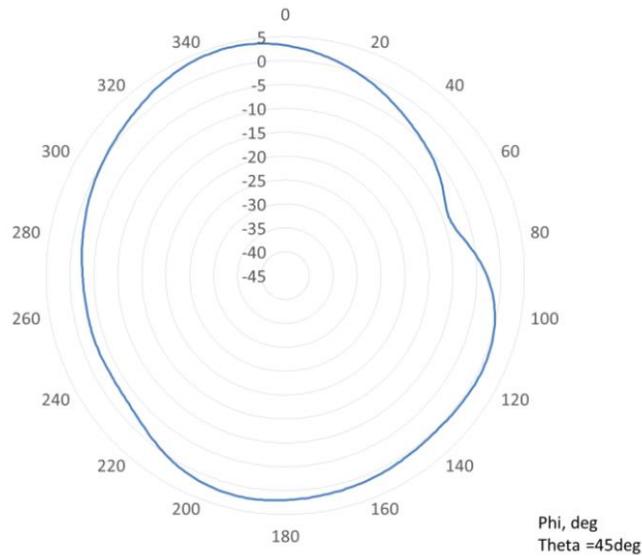
## Radiation Patterns

PSIBVU69

### Vertical Plane 617-960 MHz



### Horizontal Plane 617-960 MHz



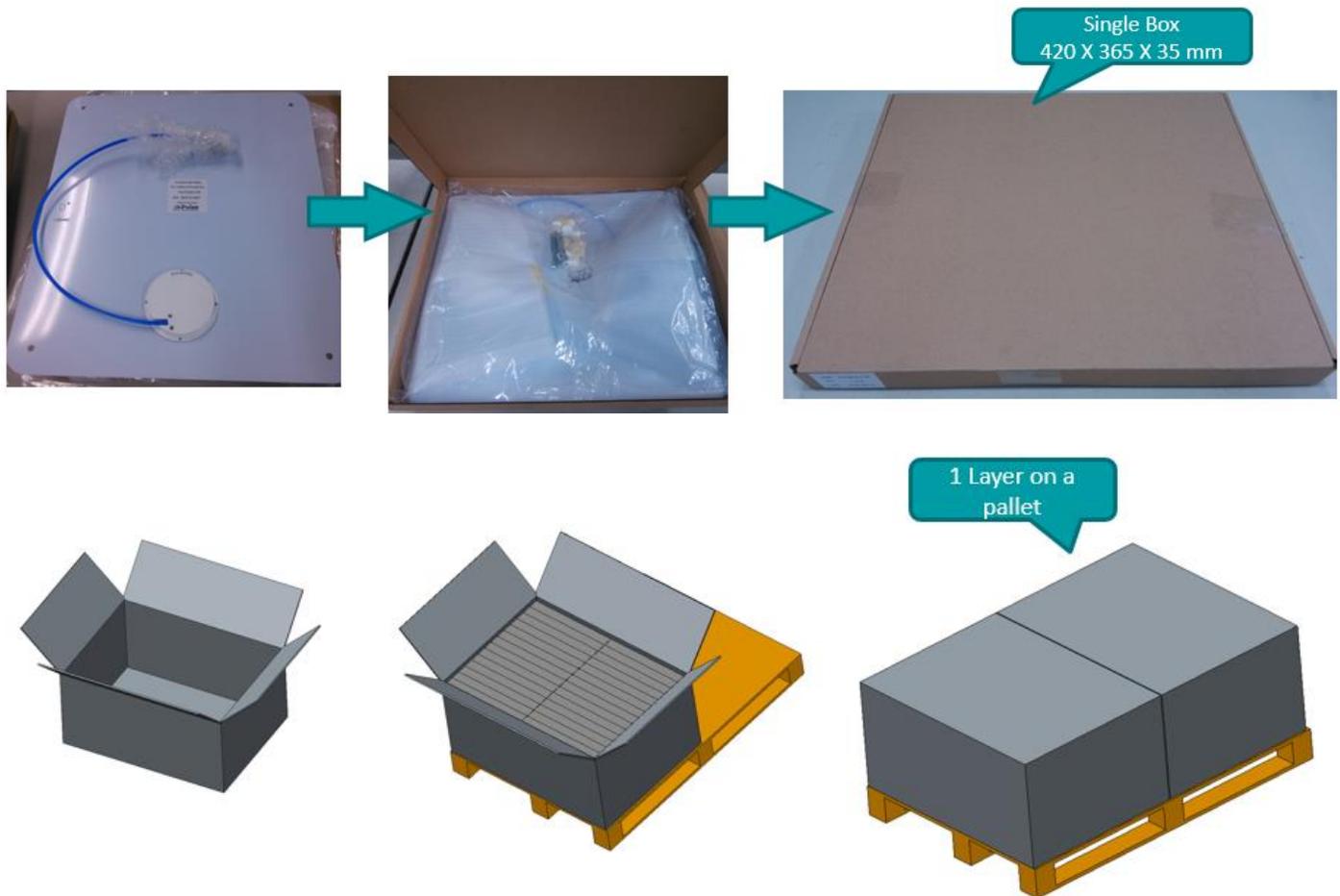
# V-Thinity V/H/6/9 In Building Public Safety Antenna

PSIBVU69 - 132-174 / 380-570 / 617-960 MHz

## PACKAGING

### PSIBVU69

- 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.



### For More Information:

Americas - [antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) | Europe - [antennas.eu@pulseelectronics.com](mailto:antennas.eu@pulseelectronics.com) | Asia - [antennas.as@pulseelectronics.com](mailto:antennas.as@pulseelectronics.com) | Questions? +1-800-ANTENNA  
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