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

**PART NUMBER:** PSIBVU78

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

**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.

**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:** 1651

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Tel: 86 512 6807 9998
Description: In Building Public Safety Antenna 132-174 / 380-570 / 700-960 MHz

PART NUMBER: PSIBVU78

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

ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>132-174 / 380-570 / 700-960 MHz</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>VSWR</td>
<td>2:1*</td>
</tr>
<tr>
<td>Power Withstand</td>
<td>6 watts</td>
</tr>
<tr>
<td>Connector Type</td>
<td>N Female</td>
</tr>
<tr>
<td>Cable Type</td>
<td>Ø 4mm / 0.16”</td>
</tr>
<tr>
<td>Cable length</td>
<td>500mm / 19.7”</td>
</tr>
</tbody>
</table>

*antenna mounted against ceiling tile with 2ft x 2ft metal suspension frame
**Description:** In Building Public Safety Antenna 132-174 / 380-570 / 700-960 MHz

**PART NUMBER:** PSIBVU78

### 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:** 0 - 60°C
- **Storage temperature:** MIL STD 801G: 24h at 85°C and 24h at -40°C
- **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 60°C 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”
**Description:** In Building Public Safety Antenna 132-174 / 380-570 / 700-960 MHz

**PART NUMBER:** PSIBVU78

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

**MECHANICAL DRAWING**

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

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

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

**VSWR**

- Frequency, MHz
- VSWR 2:1
- Typical VSWR

**Total efficiency, % - 132-174MHz**

- MHz

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

**PART NUMBER**: PSIBVU78

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

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

**PART NUMBER:** PSIBVU78

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

**Vertical plane 132-174MHz**

- Theta, deg
- Floor at theta=0deg

**Horizontal plane 132-174MHz**

- Phi, deg
- Theta =45deg
Description: In Building Public Safety Antenna 132-174 / 380-570 / 700-960 MHz

PART NUMBER: PSIBVU78

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

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

**Vertical plane 700-960MHz**

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

PART NUMBER: PSIBVU78

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

**ASSEMBLY**

* Spacer to be used in gypsum & concrete installations

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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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