



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

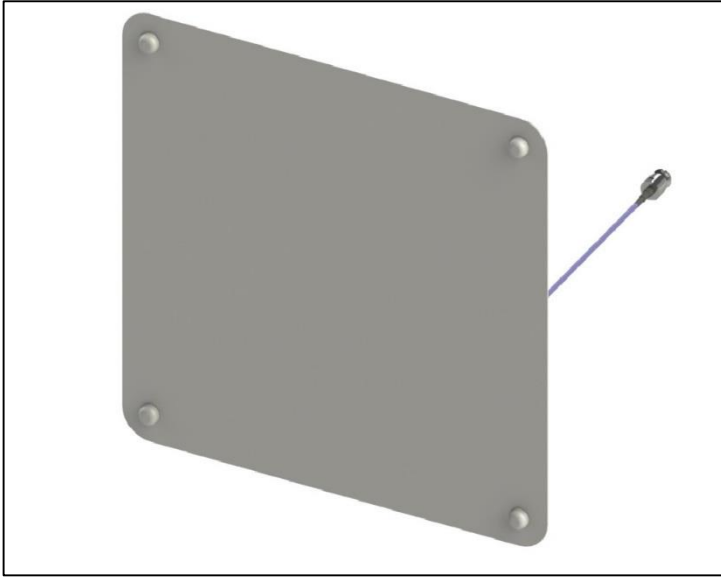
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBVHF



**Features:**

- Wide bandwidth VHF
  - 132-174 MHz operation
- Aesthetically pleasing:
  - 1.5mm (0.060 inch) thickness to ceiling
- VSWR < 2:1
- Optimized To Low-Frequency In-Building Environments
- 15 x 15 inch (380 x 380 mm)



Installed Antenna

**Applications:**

- In-building repeater systems
  - Bi-Directional Amplifier
- Police, Fire, Government
- Low profile ceiling mounting
- Enhanced for In-Building:
  - Gain-set to IB environment
  - Multi-floor coverage
  - Avoids the nulls of traditional dipoles.

All dimensions are in mm / inches

Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

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

Pulse/Larsen Antennas  
3611 NE 112<sup>th</sup> Ave  
Vancouver, WA 98682  
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, 132-174MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBVHF

## ELECTRICAL SPECIFICATIONS

Frequency	132-174 MHz
Nominal Impedance	50 $\Omega$
VSWR	2:1
Power withstanding	6W
Connector type	N female
Cable type	$\varnothing$ 4mm / 0.16"
Cable length	500mm / 19.7"

Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

**Description:** In Building Public Safety  
Antenna, 132-174MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBVHF

### MECHANICAL SPECIFICATIONS

Color	White
Weight	550 g
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 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: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

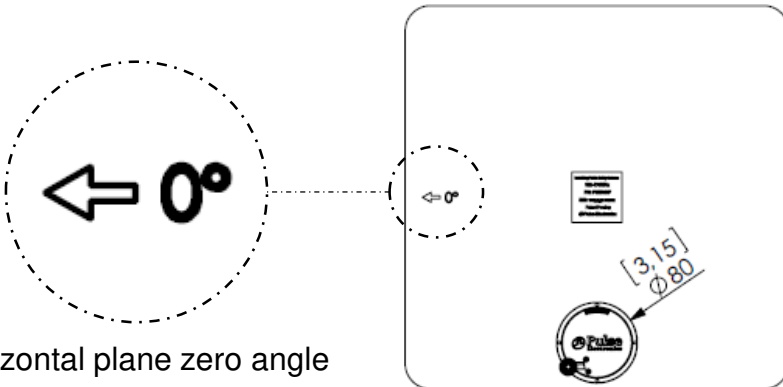
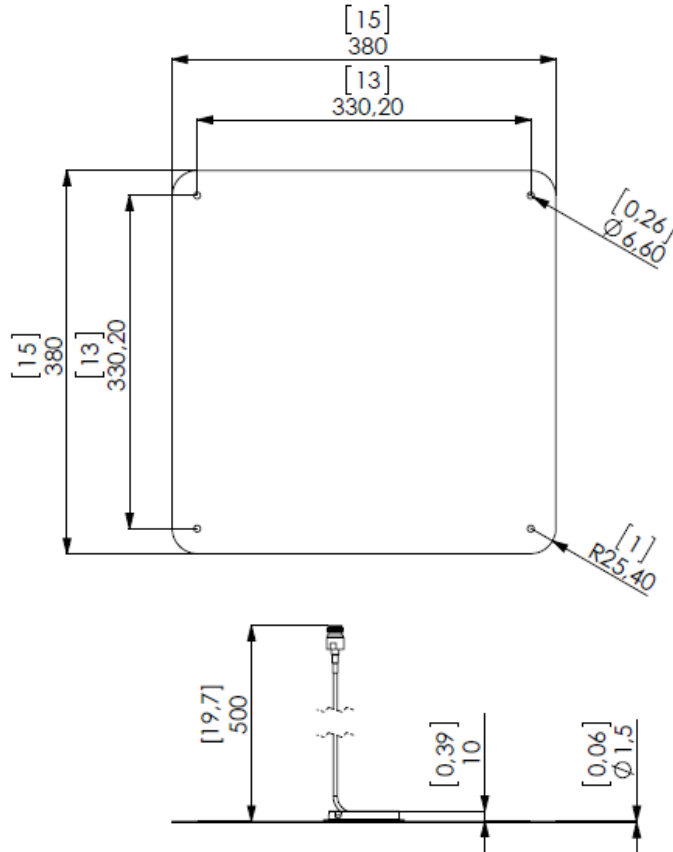
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBVHF

**MECHANICAL DRAWING**



Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

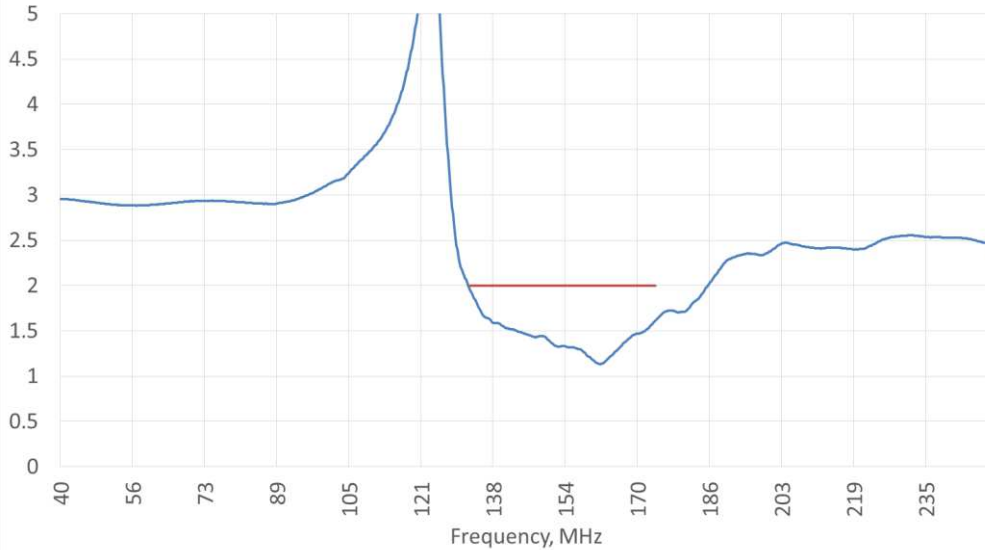
**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

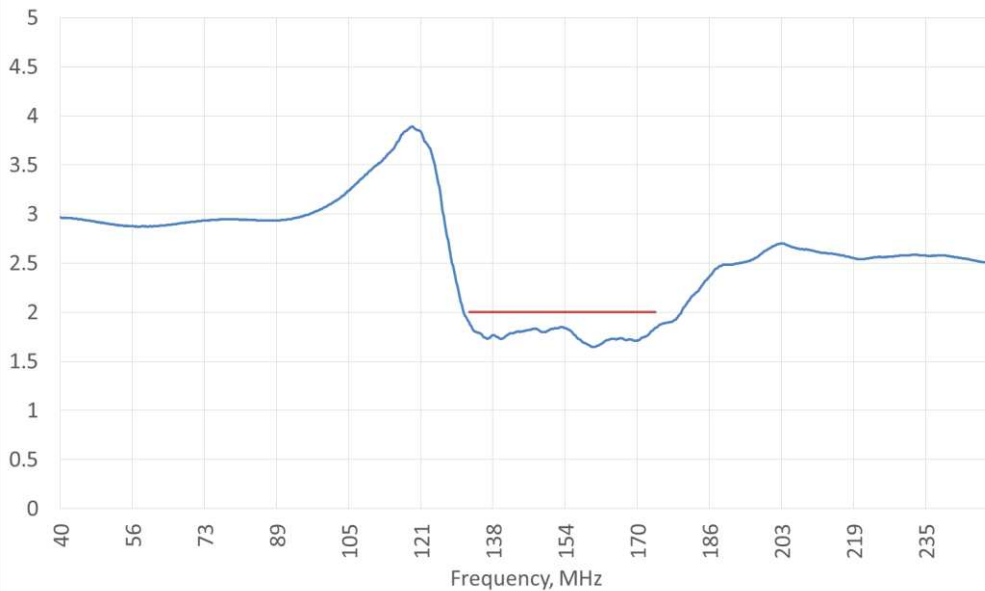
**PART NUMBER:** PSIBVHF

**CHARTS**

VSWR, Antenna Mounted Against Ceiling Tile with 2 ft x 2 ft metal suspension frame



VSWR, antenna mounted against 10mm drywall with spacers



Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

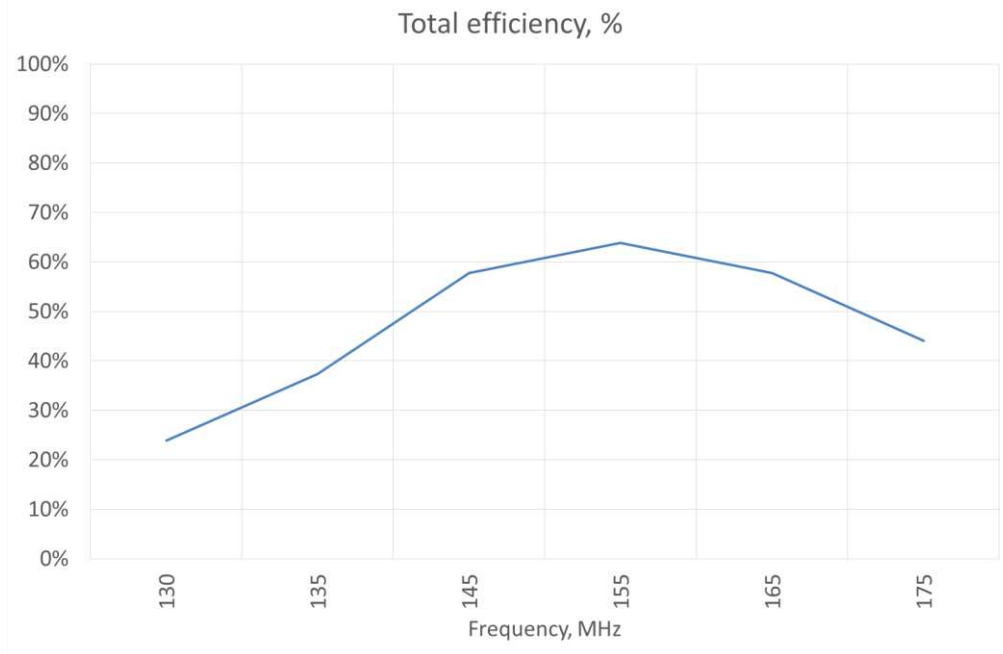


**Description:** In Building Public Safety Antenna, 132-174MHz

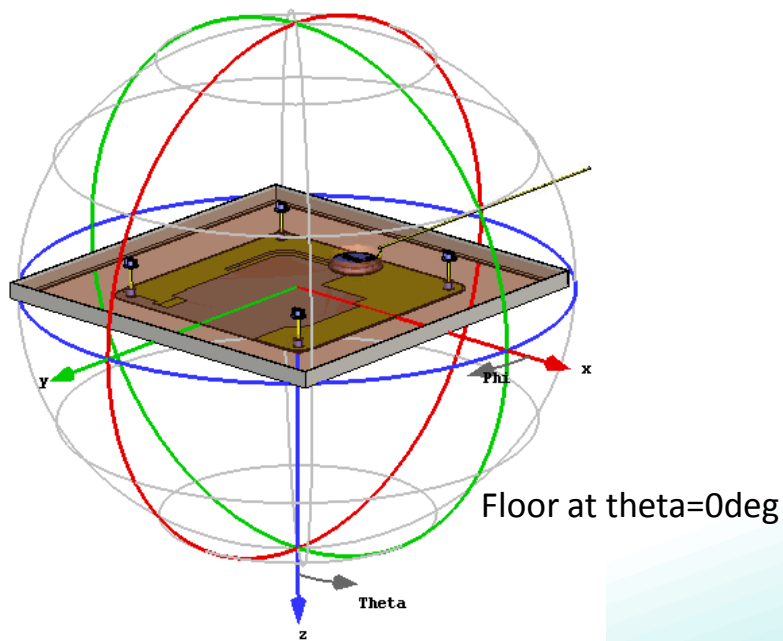
**Series:** V-Thinity

**PART NUMBER:** PSIBVHF

**CHARTS**



Antenna alignment in spherical coordinate system



Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

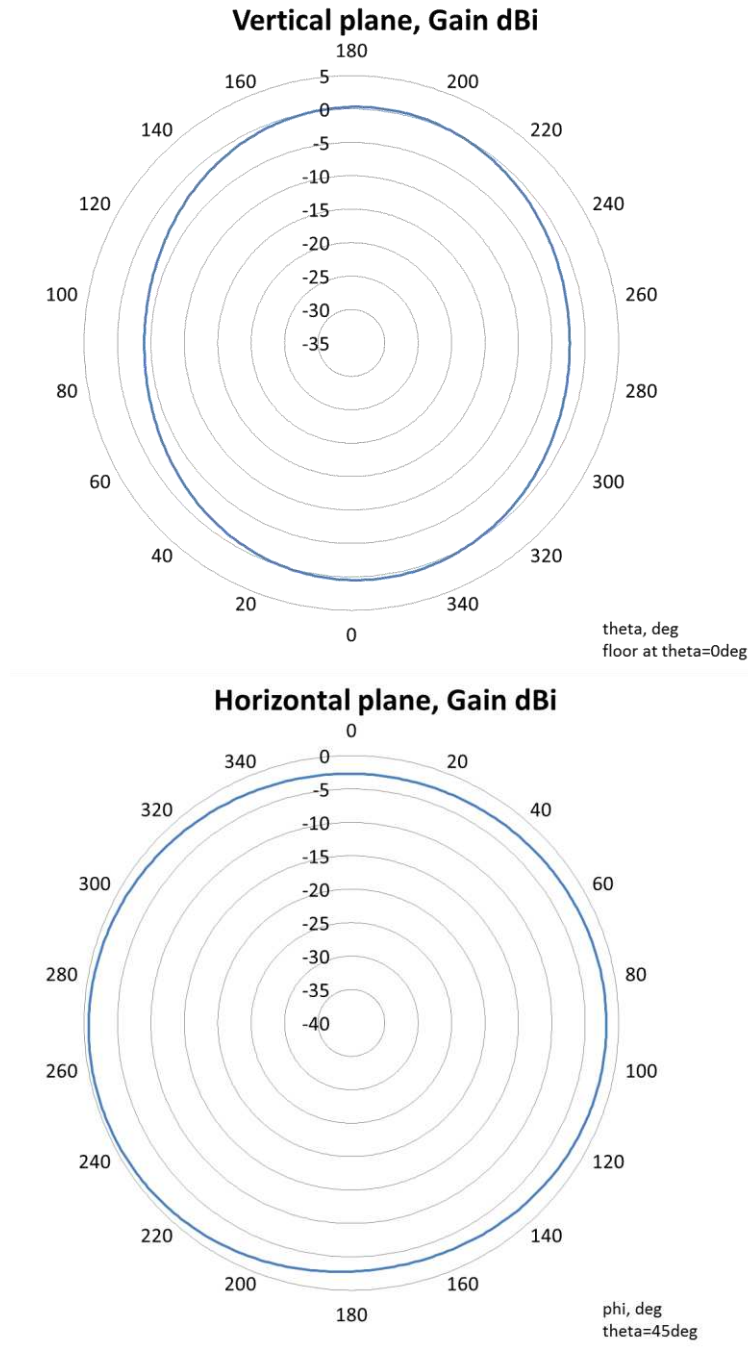
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBVHF

**CHARTS**



Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

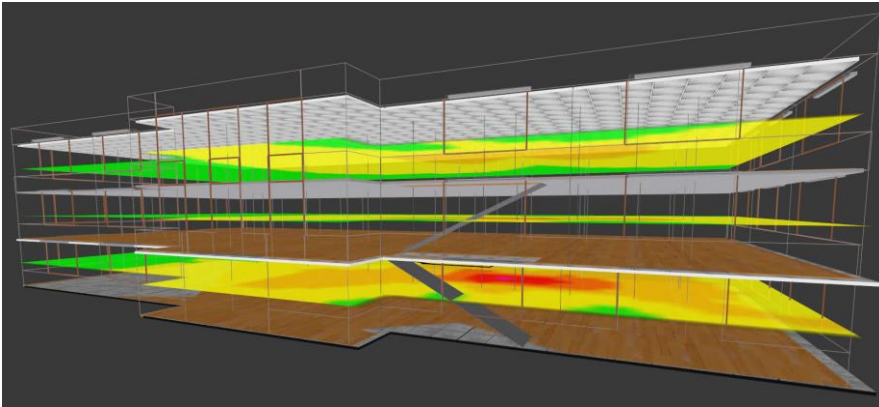
**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

**PART NUMBER:** PSIBVHF

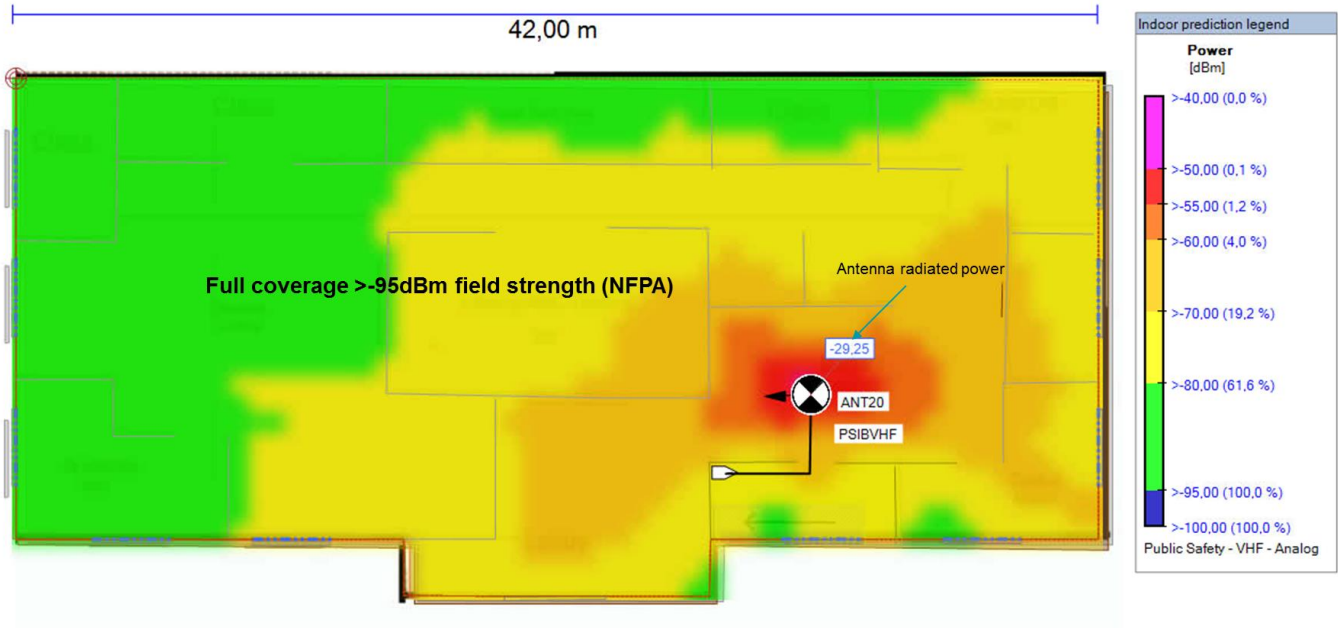
**CHARTS**

IBWAVE propagation simulation for VHF



Outside wall material: Brick, attn 1.13dB  
 Inside wall material: sheetrock, heavy, attn 1.79dB  
 Material between floors: Concrete, light, attn 0.73dB  
 Floor material: Wood, attn 0.5dB  
 Ceiling material: plaster, attn 0.49dB, ceiling height h=3m  
 Antenna placed on lowered ceiling, h=2.5m

Field strength in first floor



Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

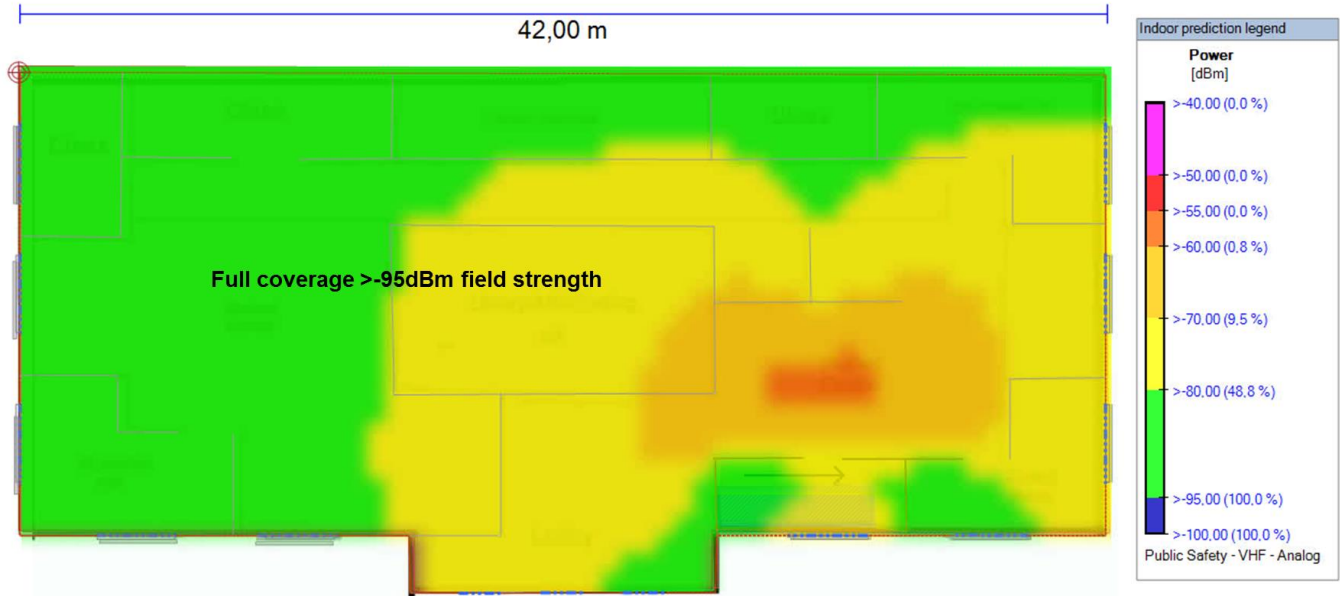
**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

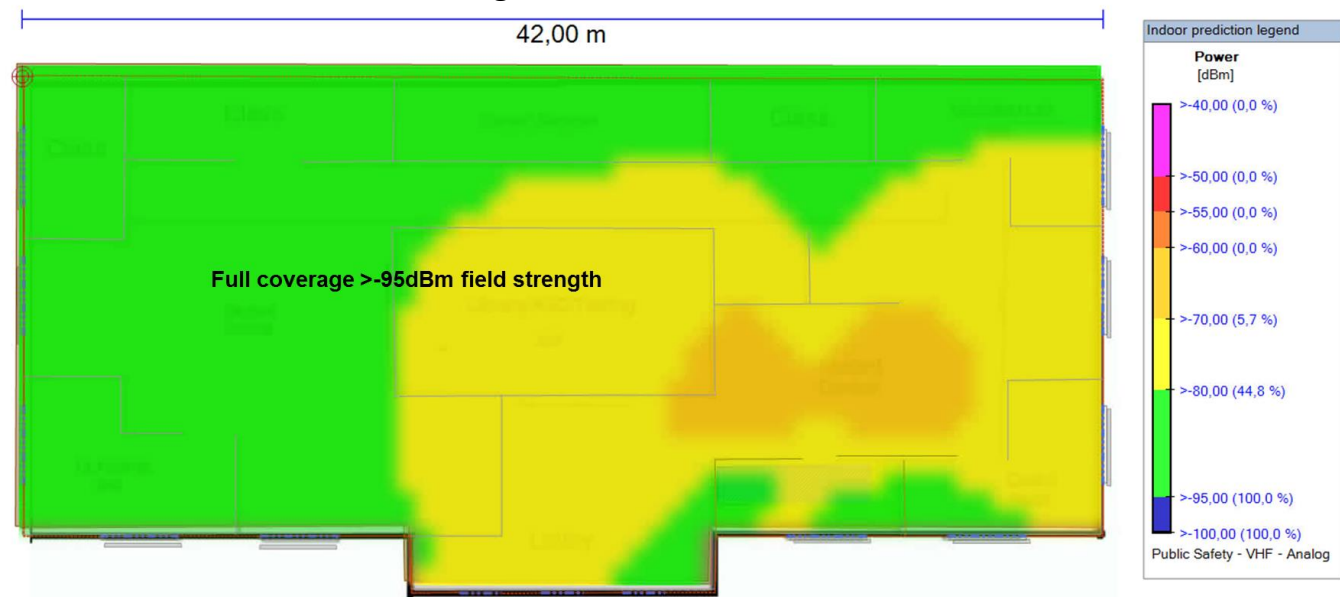
**PART NUMBER:** PSIBVHF

**CHARTS**

Field strength in second floor



Field strength in 3rd floor



Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

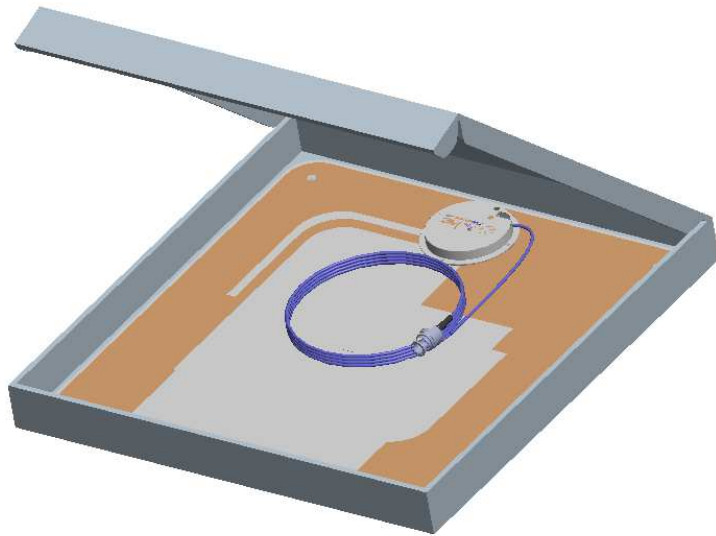
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

**Description:** In Building Public Safety Antenna, 132-174MHz

**Series:** V-Thinity

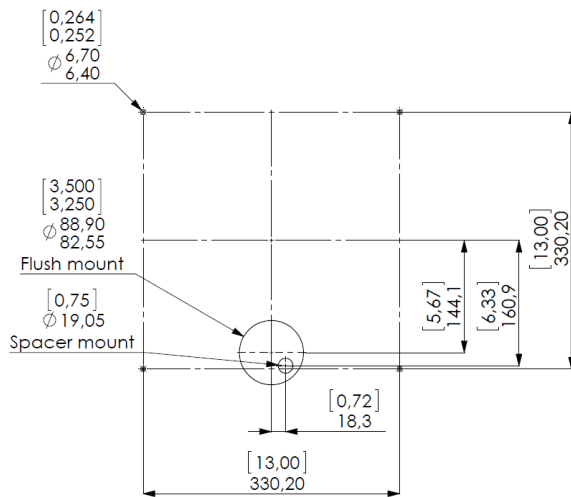
**PART NUMBER:** PSIBVHF

**PACKAGING**

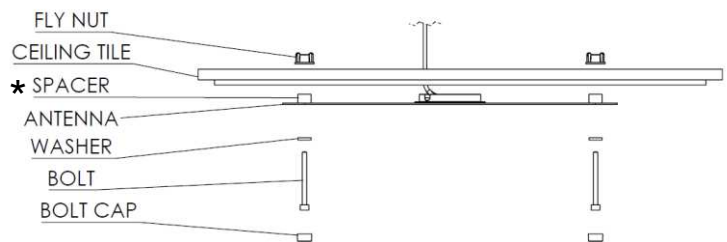


(15.75x15.75x1.57) inch  
(400x400x40) mm

**ASSEMBLY**



**DRILL MAP**



\* Spacer to be used in gypsum & concrete installations

Issue: 1626

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.