

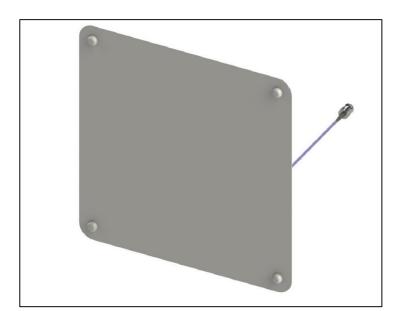


Series: V-Thinity

Description: In Building Public Safety

Antenna, 132-174MHz

PART NUMBER: PSIBVHF





Installed Antenna

All dimensions are in mm / inches

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)

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.

Issue: 1626

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

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Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 3611 NE 112th 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,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



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ELECTRICAL SPECIFICATIONS

Frequency 132-174 MHz

Nominal Impedance 50 Ω

VSWR 2:1

Power withstanding 6W

Connector type N female

Cable type Ø 4mm / 0.16"

Cable length 500mm / 19.7"





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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"





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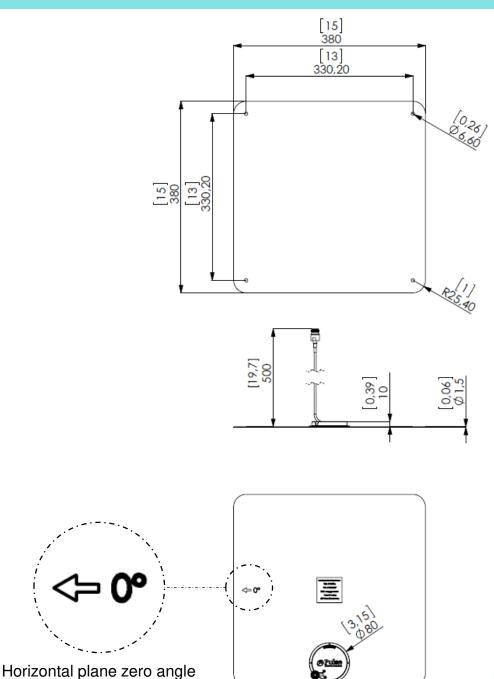
TECHNICAL DATA SHEET

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MECHANICAL DRAWING









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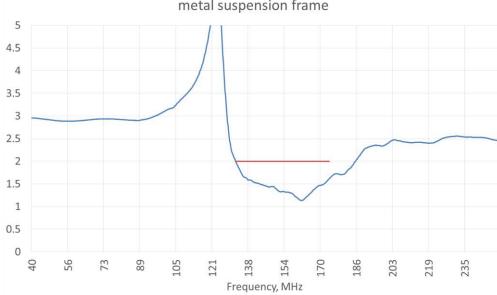
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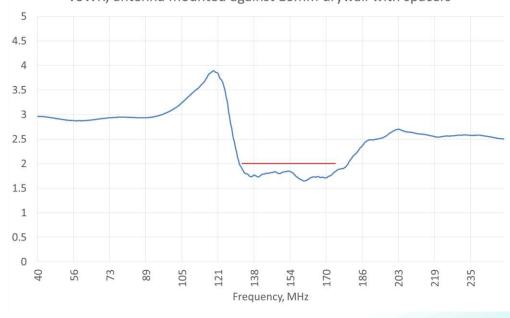
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CHARTS

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



VSWR, antenna mounted against 10mm drywall with spacers





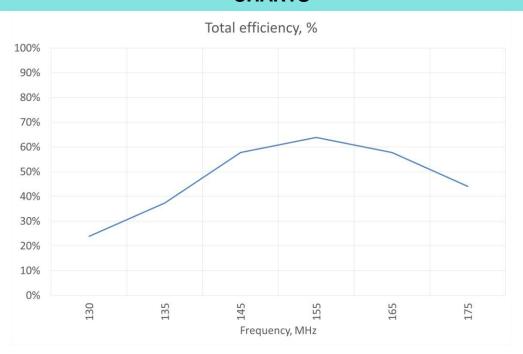
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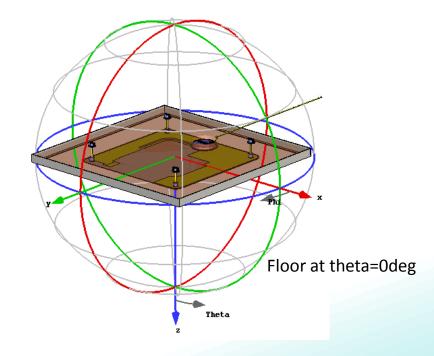
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CHARTS



Antenna alignment in spherical coordinate system





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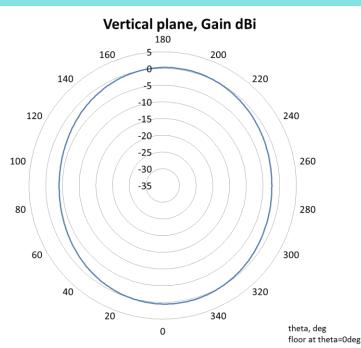
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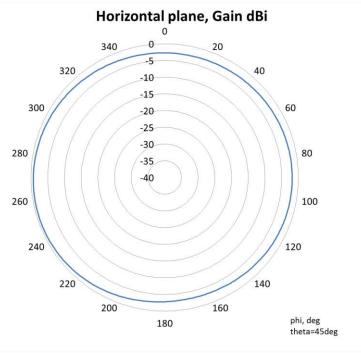
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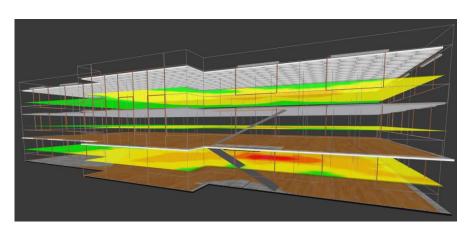
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CHARTS

IBWAVE propagation simulation for VHF



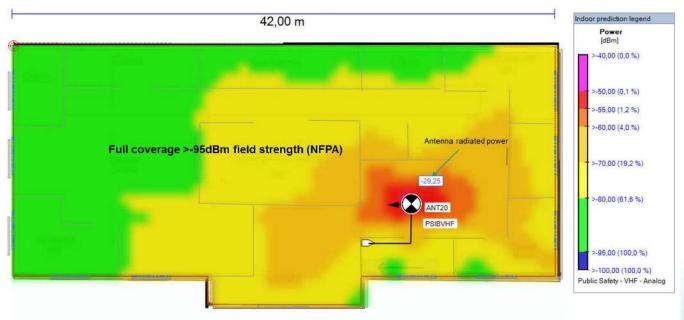
Outside wall material: Brick, attn 1.13dB Inside wall material: sheetrock, heavy, attn 1.79dB Material between floors:Concrete, light, attn 0.73dB

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





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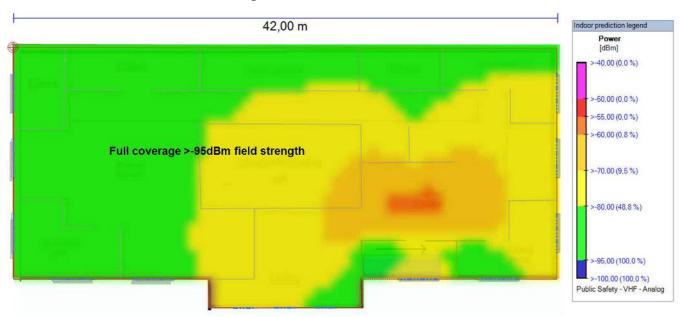
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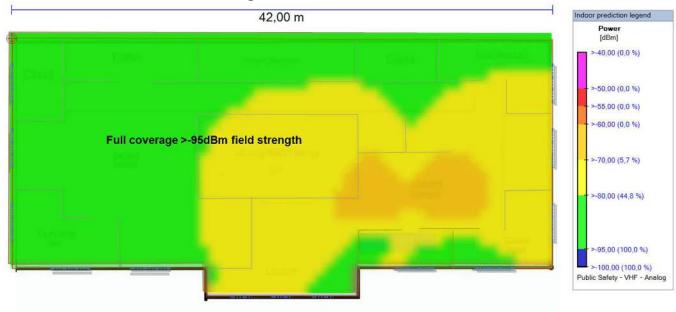
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CHARTS

Field strength in second floor



Field strength in 3rd floor





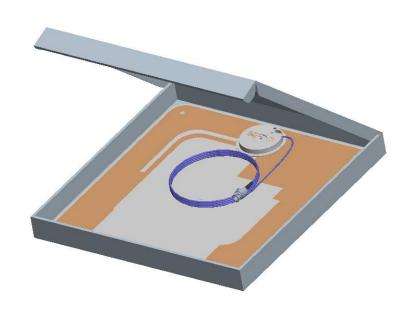
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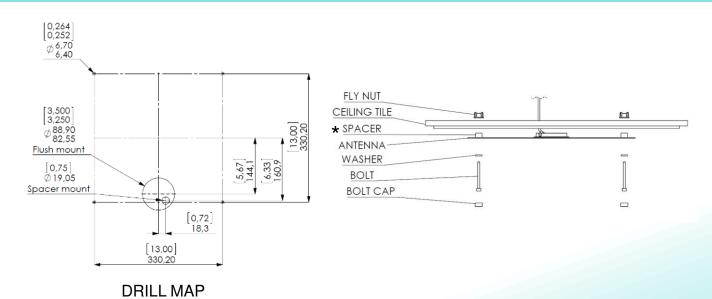
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PACKAGING



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

ASSEMBLY



* Spacer to be used in gypsum & concrete installations

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ROHS

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