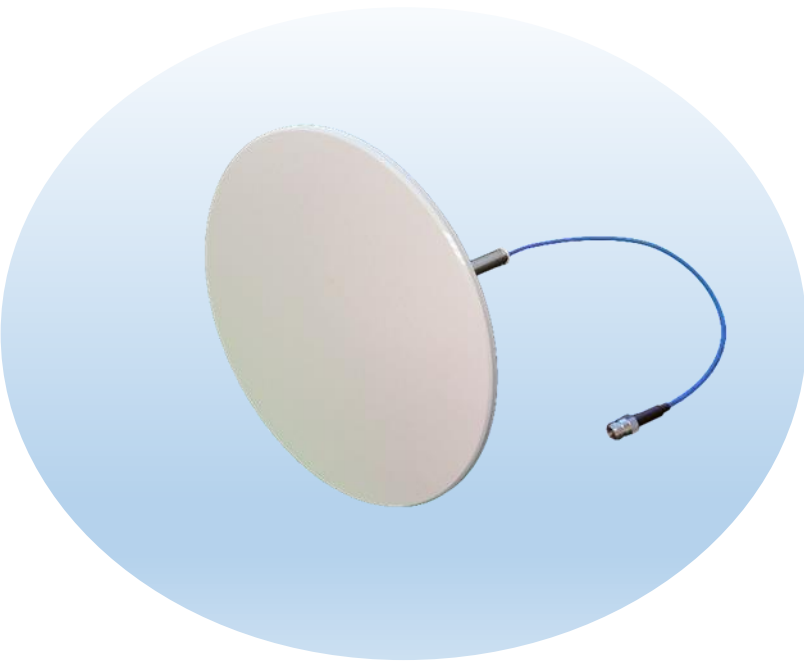


Description: In Building Public Safety

Series: Clarity™ Pearl

PART NUMBER: PSUTWCNF



Features:

- **Frequency of Operation:**
 - 380-570 MHz (UHF)
 - 698-960 MHz
- **Excellent Performance Across all bands**
 - VSWR 2:1 Max.
- **Size : 311mm Diameter**
 - 9.5mm below ceiling
- **White radome; UV stabilized plastic, UL94-V0 flamm.**
- **500mm coax; N Female Conn.**

Applications:

- **In-Building Public Safety repeater systems.**
- **Excellent Coverage of Public Safety networks**
 - Includes T-Band, Tetra coverage
- **Pleasing aesthetic design.**
- **Ideal for Challenging building types: Hospitals, Schools, Shopping malls, Government buildings, Multi-Tenant Units.**

All dimensions are in mm / inches

Issue: 1635

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Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description: In Building Public Safety**Series:** Clarity™ Pearl**PART NUMBER:** PSUTWCNF**ELECTRICAL SPECIFICATIONS**

Frequency	380-570, 700-960 MHz
Nominal Impedance	50 Ω
VSWR	2:1
Average peak gain 380-570 MHz	1.8 dBi
Average peak gain 700-960 MHz	3.5 dBi
Radiation Pattern	
3 dB beamwidth	
Horizontal plane	Omni
Vertical plane	100 deg
Power withstanding	10 W
Connector type	N female
Cable type	Ø 4mm / 0.16"
Cable length	500mm / 19.7"

Description: In Building Public Safety**Series:** Clarity™ Pearl**PART NUMBER:** PSUTWCNF**MECHANICAL SPECIFICATIONS**

Plastic radome	UV protected, UL94-V0
Color	White
Weight	550g
Cable retention: Pull off	30 N
Fixing system	Suspended ceiling, through hole mount, Drill Ø 64-70 [2 ½"-2 ¾"]

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	0 - 70° 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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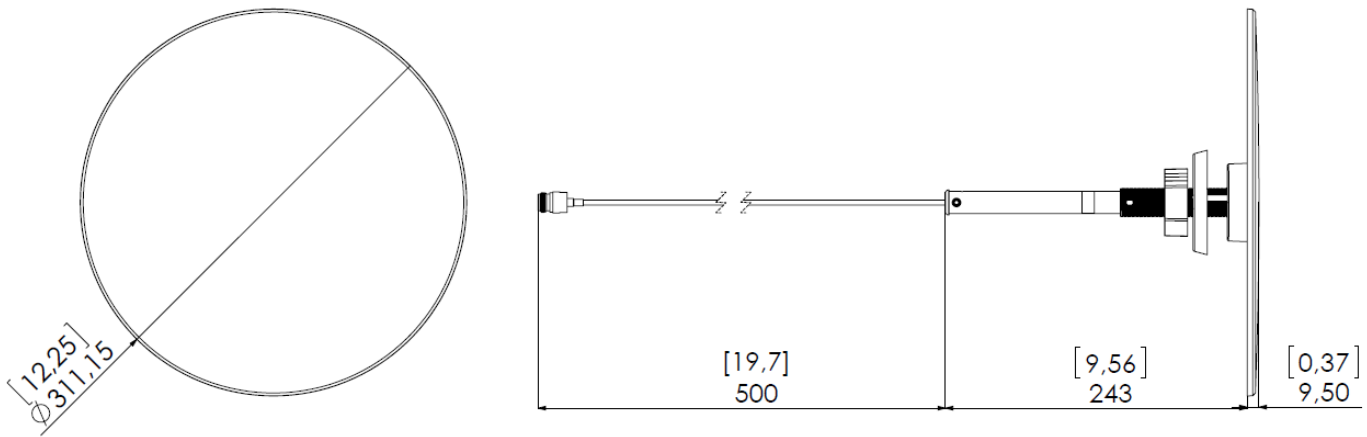
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Description: In Building Public Safety

Series: Clarity™ Pearl

PART NUMBER: PSUTWCNF

MECHANICAL DRAWING



DIMENSIONS IN MILLIMETERS [INCH]

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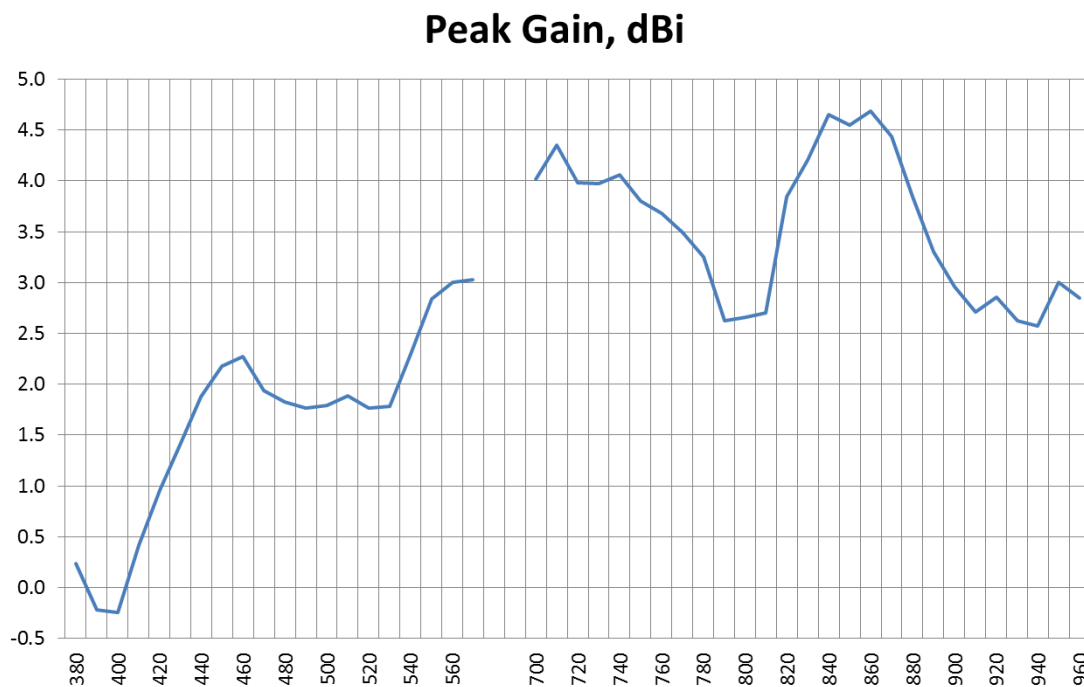
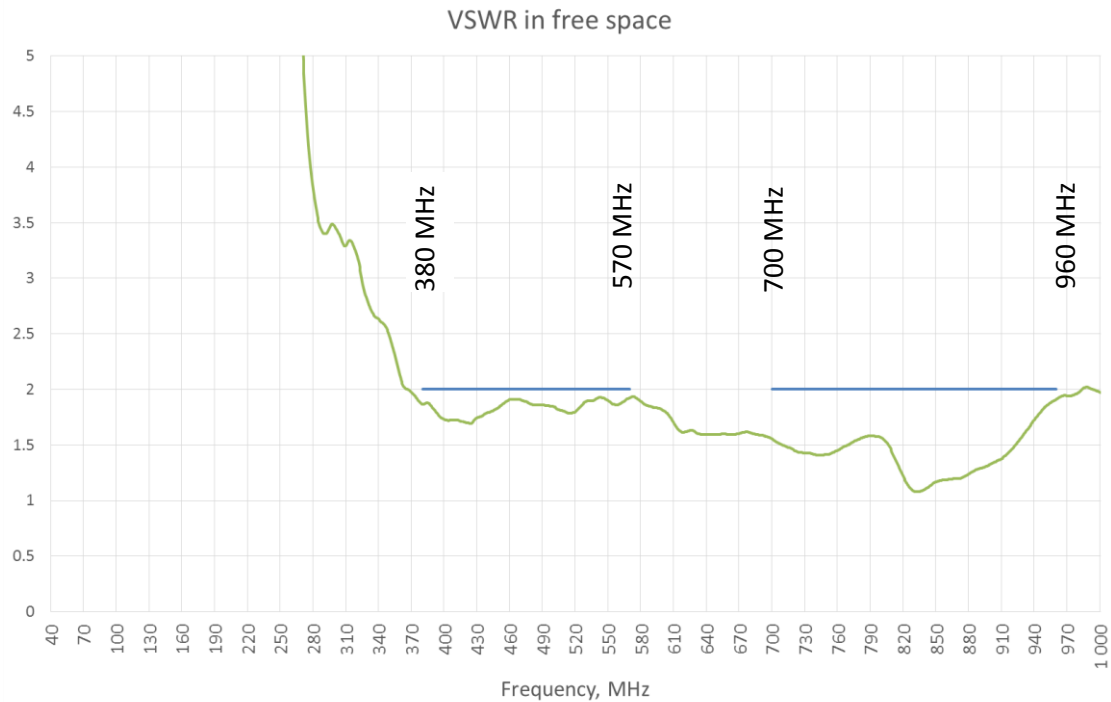
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Description: In Building Public Safety

Series: Clarity™ Pearl

PART NUMBER: PSUTWCNF

CHARTS



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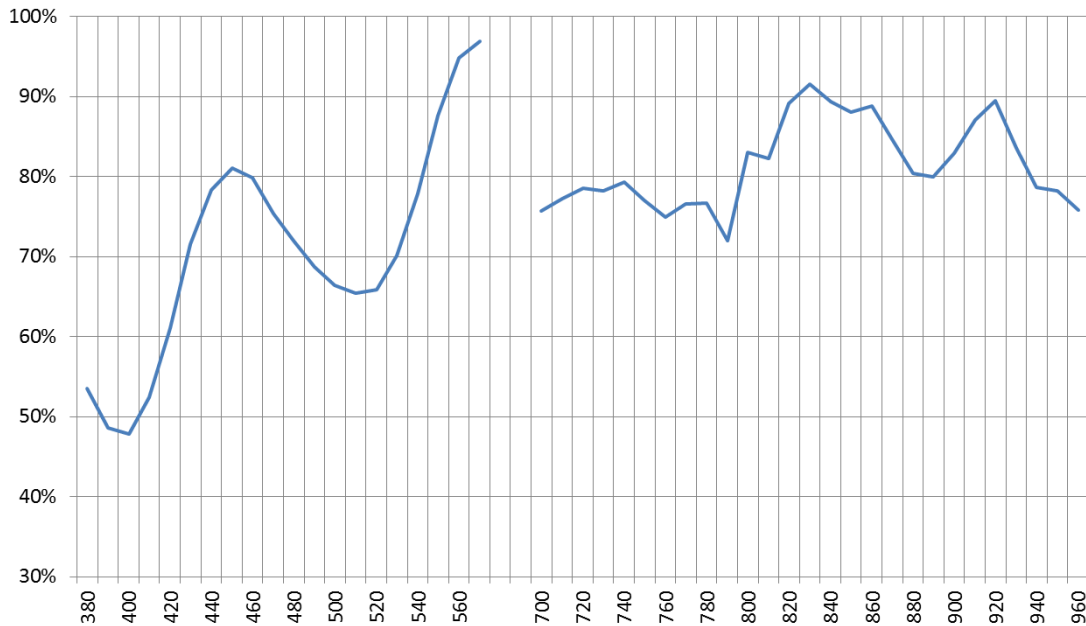
Description: In Building Public Safety

Series: Clarity™ Pearl

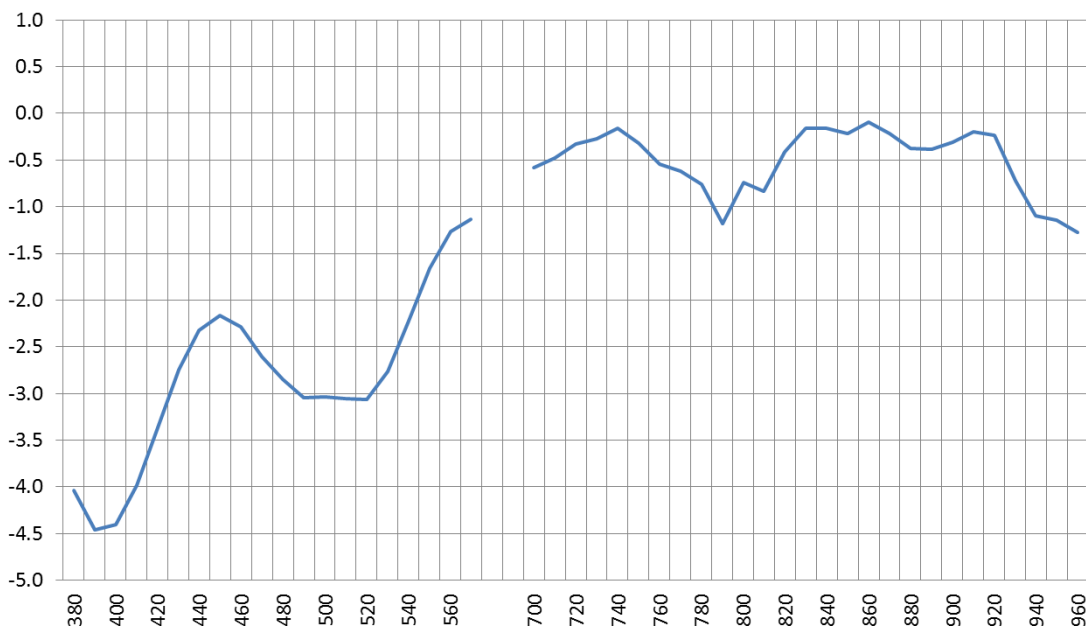
PART NUMBER: PSUTWCNF

CHARTS

Total efficiency, %



Average (3D) Gain, dBi



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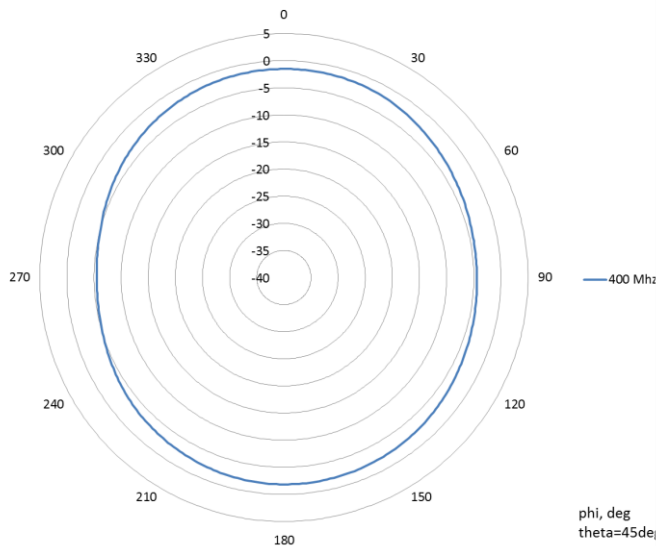
Series: Clarity™ Pearl

PART NUMBER: PSUTWCNF

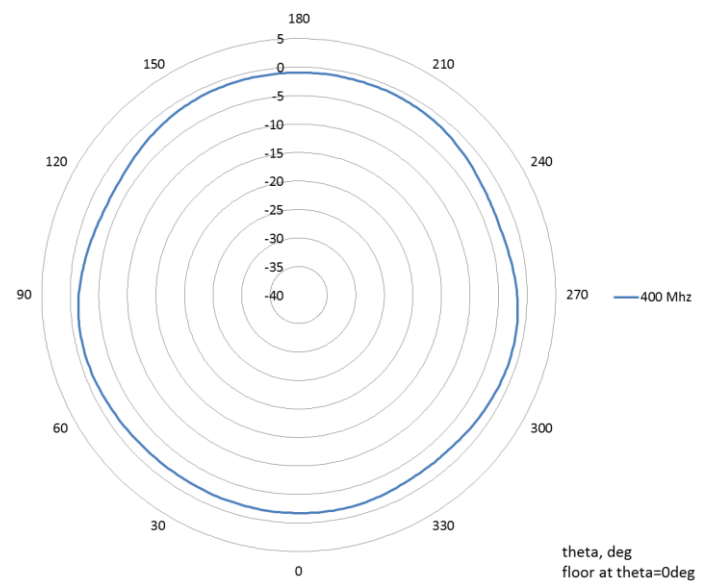
CHARTS

Gain patterns, 400MHz

Horizontal plane

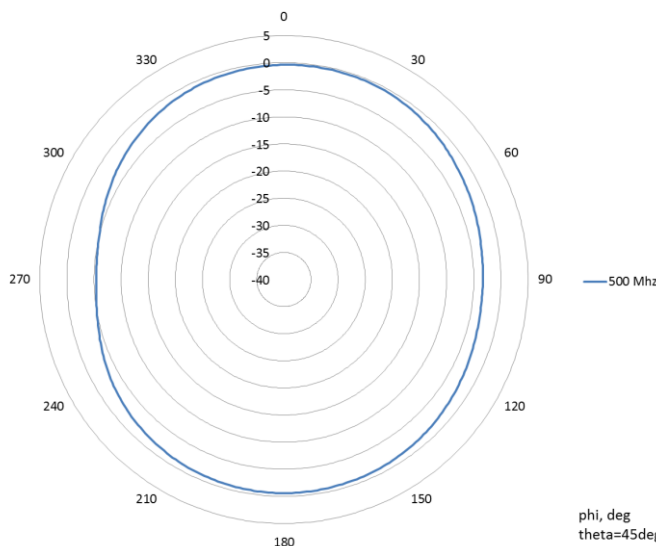


Vertical plane

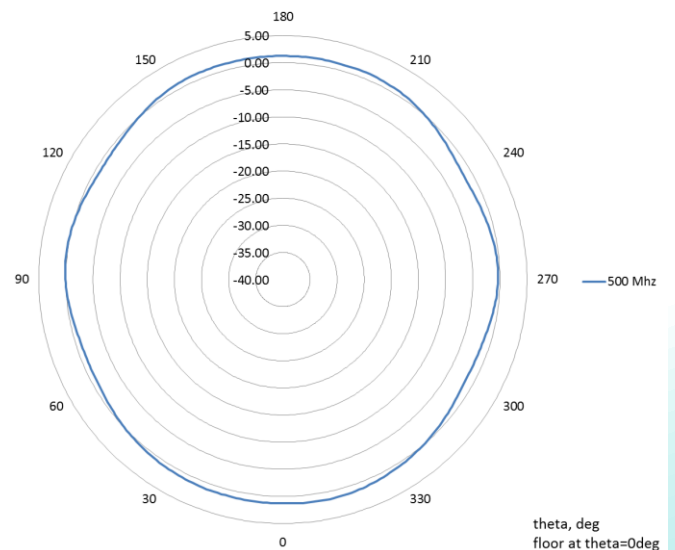


Gain patterns, 500MHz

Horizontal plane



Vertical plane



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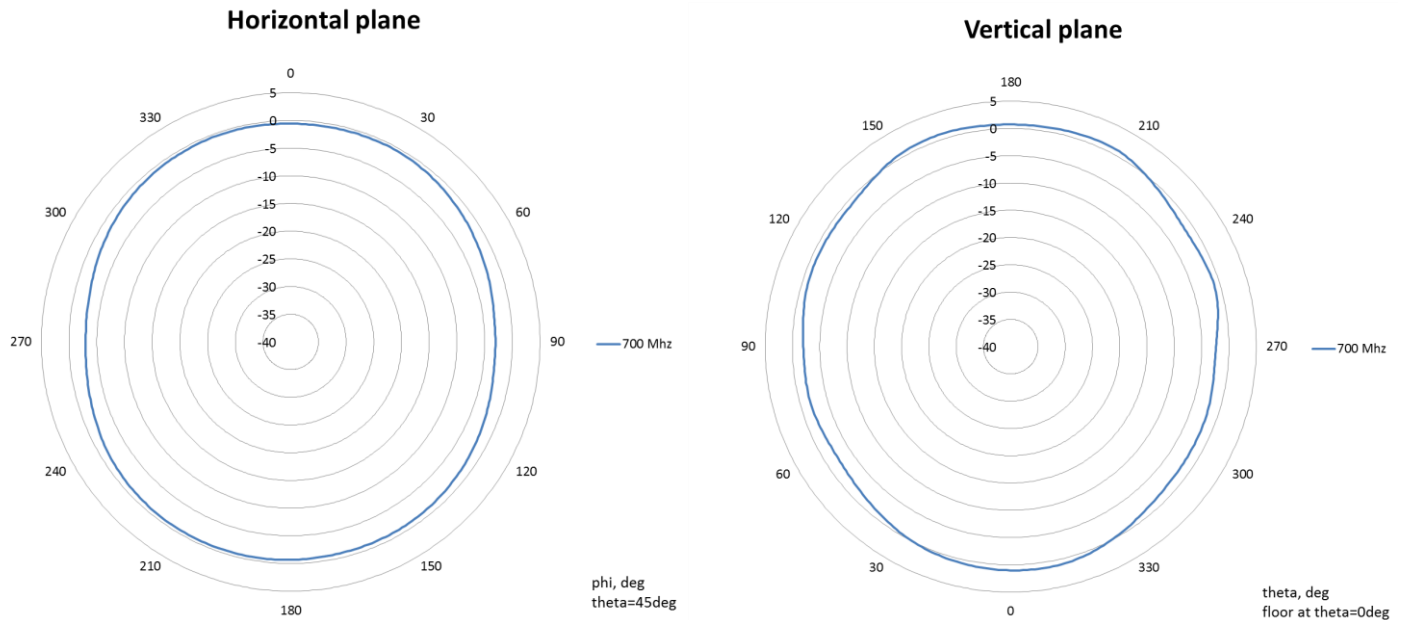
Description: In Building Public Safety

Series: Clarity™ Pearl

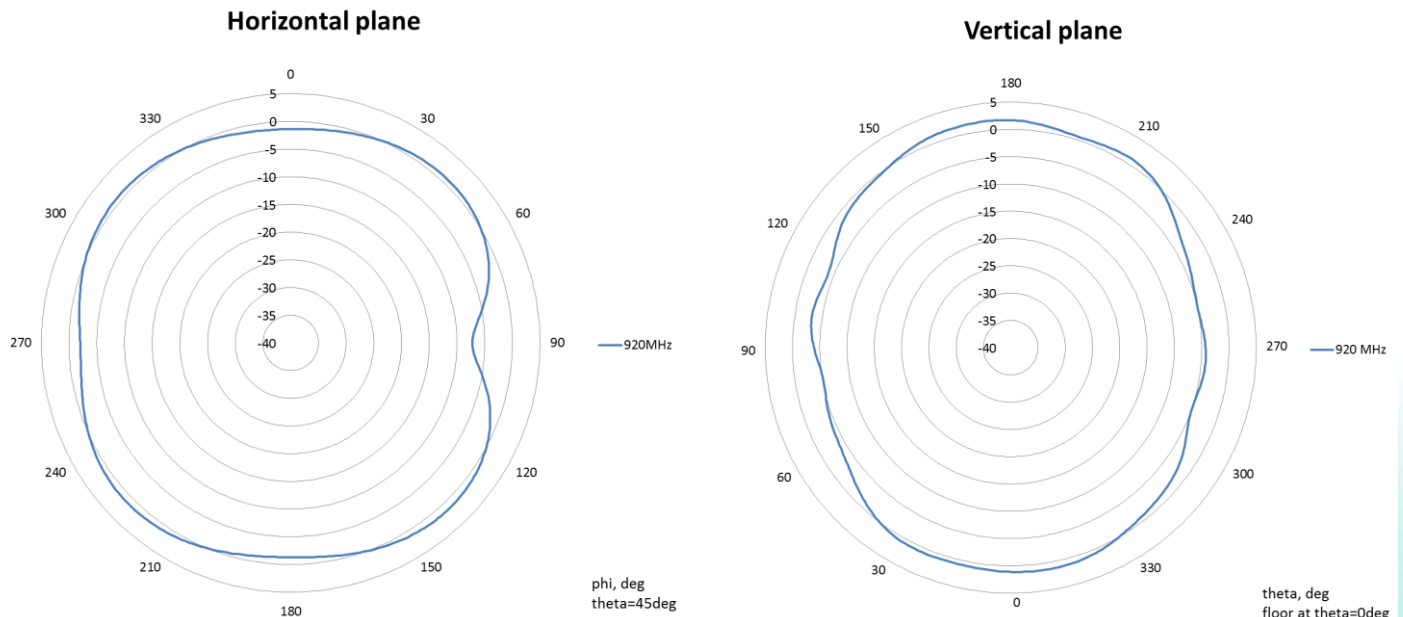
PART NUMBER: PSUTWCNF

CHARTS

Gain patterns, 700MHz



Gain patterns, 920MHz



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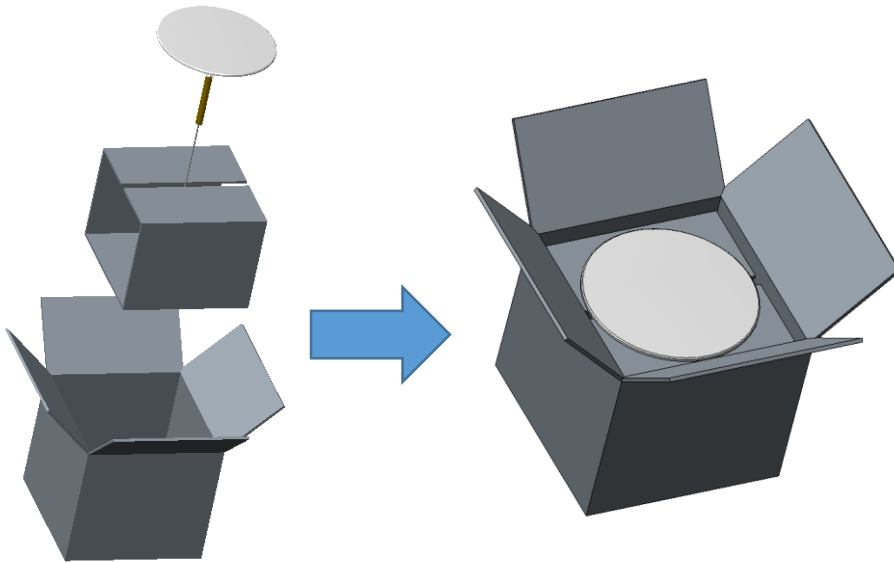
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Description: In Building Public Safety

Series: Clarity™ Pearl

PART NUMBER: PSUTWCNF

PACKAGING – Option 1



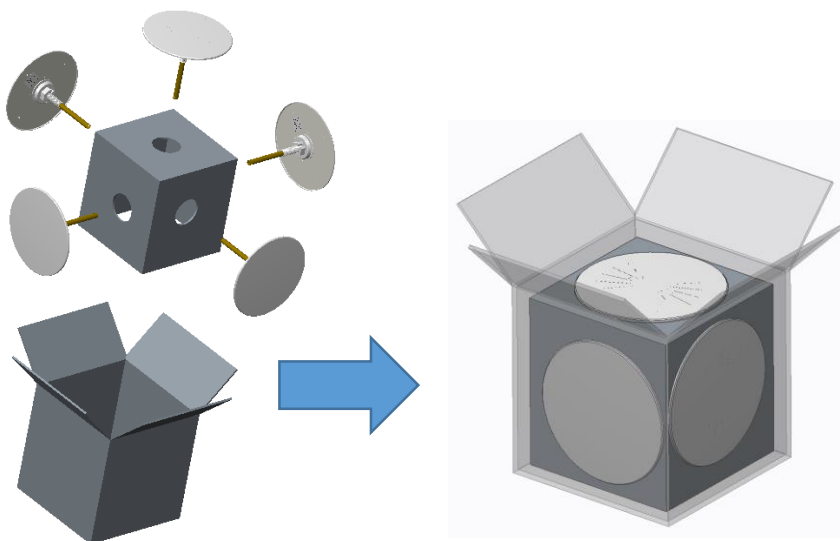
PSUTWCNF

1 antenna packed in one carton

(14.6x14.6x13) inch

(370x370x330) mm

PACKAGING – Option 2



PSUTWCNF5P

5 antennas packed in one carton

(15.7x15.7x16.5) inch

(400x400x420) mm

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Description: In Building Public Safety

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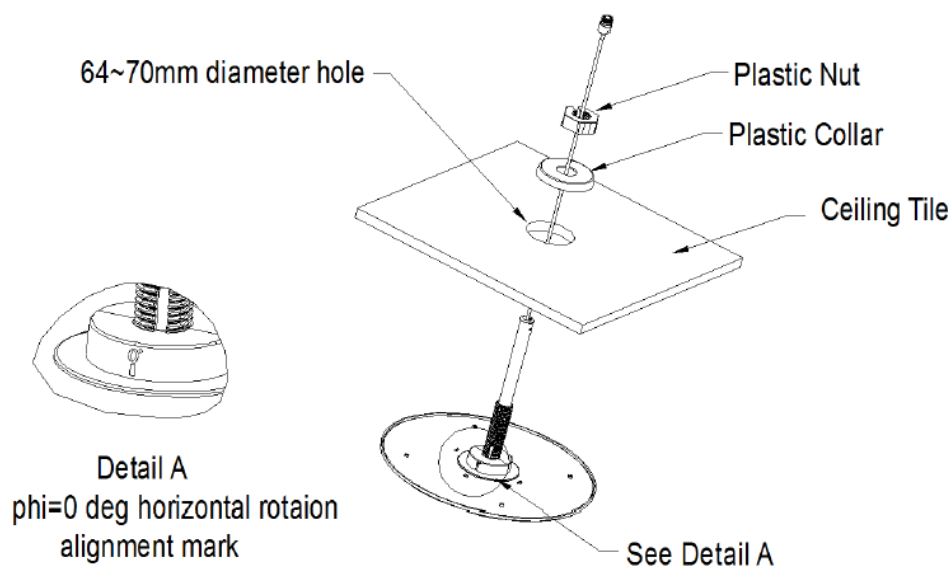
ASSEMBLY

PSUTWCNF

Clarity Pearl In-Building Public Safety Antenna INSTALLATION:

Drill or cut a hole 2.5-2.75 inches (64-70 mm) diameter at the center of the ceiling tile or at the desired location. Slide the antenna cable/connector assembly through the hole. Slide the Collar and Nut onto the cable. Turn the Nut, tightening the antenna against the ceiling tile. See Figure 1.

Figure 1



Note: Fiberboard ceiling tile is soft; tighten the nut just enough to hold the antenna firmly in place.

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Description: In Building Public Safety**Series:** Clarity™ Pearl**PART NUMBER:** PSUTWCNF

ASSEMBLY

ADDITIONAL NOTES:

Some customers may chose to take into consideration the antenna propagation orientation during their planning process. The Horizontal rotation alignment mark ($\Phi=0$ deg), along with data from iBwave file will support this.

For Optimum Performance, Metal ceiling rails need to be a minimum 200mm from the - antenna center as the antenna requires 400mm x 400mm space free of any metal.

CONNECTOR TORQUE REQUIREMENTS

N Female: Maximum Torque 6.2-9.74 in-lbs (0.7-1.1Nm)

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