

# PEAR™ S5491i Pigtail

## Broadband In-Building Antenna

[380-6000 MHz]


**Description:**

Ceiling mount omni directional antenna for in-building applications such as DAS. The antenna is vertically polarized and operates at 380-6000 MHz supporting also public safety frequencies (TETRA).

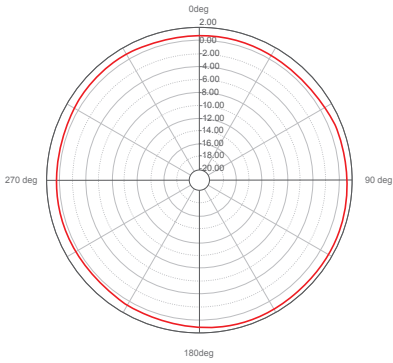

**Electrical Specifications**

Frequency Band [MHz]	380-520	698-790	790-960	1695-2200	2300-2700	2700-6000
<b>Input Connector Type</b>	N-Type or 4.3-10 DIN or 4.1-9.5 DIN Connector (F) with cable (12"/30 cm length)					
<b>Polarization</b>	Vertical					
<b>Antenna Structure</b>	Port 1					
<b>Impedance</b>	50 Ω					
<b>VSWR/Return Loss</b>	< 3:1/6.0dB	< 2:1/9.5dB	< 2:1/9.5dB	< 1.8:1/10.9dB	< 1.8:1/10.9dB	< 2.2:1/8.5dB
<b>VSWR / Return Loss with 60x60cm ext. baseplate</b>	<1.7:1/11.8 dB	<1.5:1/14.0 dB	<2.0:1/9.5 dB	<1.9:1/10.1 dB	<2.0:1/9.5 dB	<2.2:1/8.5 dB
<b>Gain</b>	0-1.5 dBi	1.5-2.5 dBi	2.0-3.5 dBi	5.0-7.0 dBi	4.0-7.0 dBi	5.0-6.0 dBi
<b>Gain with 60x60cm ext. baseplate</b>	2.0-4.0 dBi	1.5 – 3.5 dBi	3.0 – 4.0 dBi	5.0 – 7.0 dBi	4.0 – 7.0 dBi	5.0 – 6.0 dBi
<b>Horizontal Beamwidth</b>	Omni (360°)					
<b>PIM @ 2x43 dBm</b>	<-153 dBc for 4.3-10 DIN <-150 dBc for N-Type or 4.1-9.5 DIN					
<b>Input Power</b>	50 W at ambient temperature of 77° F (25° C)					

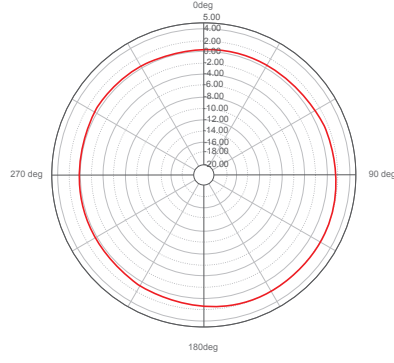
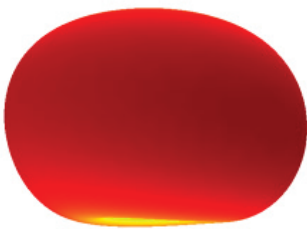
<b>Operating Temperature</b>	-40° to 158 °F (-40° to +70°C)
<b>Environmental Conditions</b>	Indoor
<b>Antenna Weight</b>	1.65 lbs (750g)
<b>Antenna Dimensions (Diameter / Height)</b>	13.2" / 4.88" (335 / 124mm)
<b>Flammability rating</b>	UL 94-V0
<b>Radome Material</b>	PC/ABS (halogen free)
<b>RoHS</b>	Compliant
<b>Radome Color</b>	RAL 9016 (white)*
<b>Cable</b>	Plenum Rated
<b>Approved for use in Plenum Space</b>	Listed & Tested by Intertek/ETL
<b>Shipping Dimensions</b>	16.7"x15.1"x10.4" / 425x385x265mm
<b>Shipping Weight (Gross Weight)</b>	5.73 lbs (2.6 Kg)

\* Radome can be painted with recommended paint "Krylon fusion for plastic"

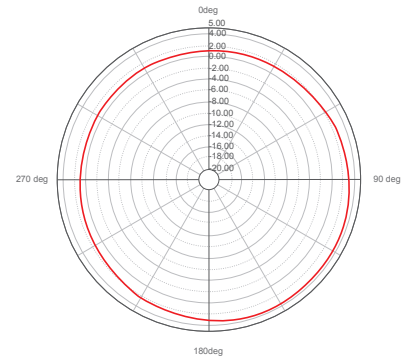
Release Date: 14. July 2015; Revision: C; Patent Pending



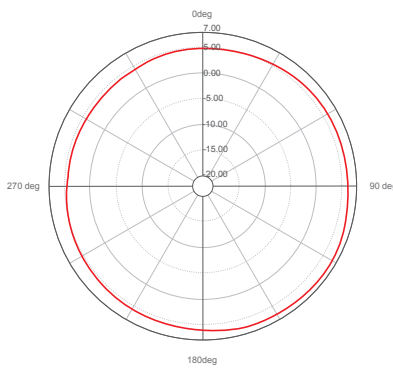
**410 MHz**



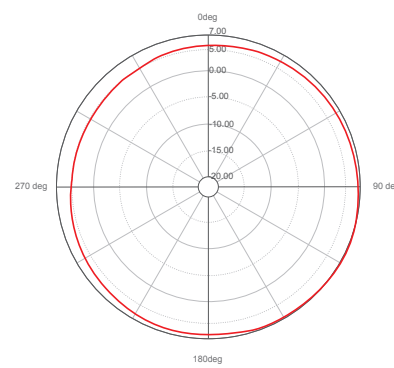
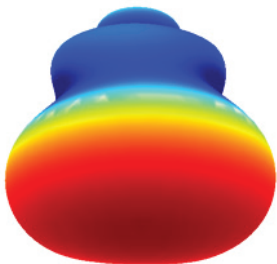
**710 MHz**



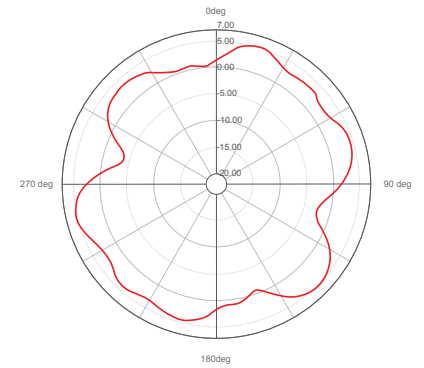
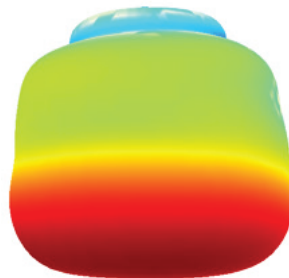
**850 MHz**



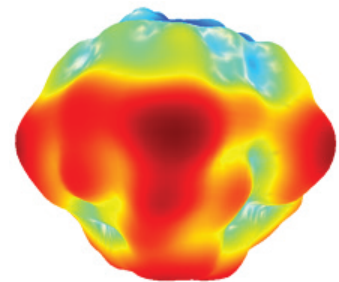
**1910 MHz**



**2500 MHz**



**5500 MHz**



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### Mounting Options

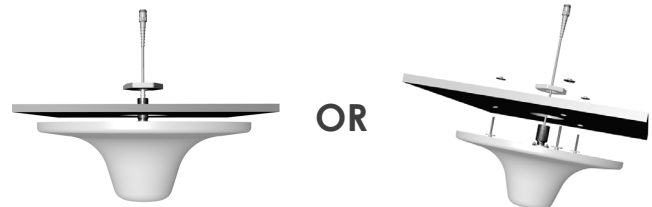
This antenna can be mounted using any of the following mounting brackets. Optional mounting brackets need to be ordered as a separate line item. See Ordering Options for details (see page 1).

#### Below Ceiling Installation (Standard)

Fasteners for below suspended ceiling mounting included with antenna. Maximum ceiling thickness 1.18" (30mm). Drill a hole with a 1.18" (30mm) diameter into suspended ceiling and secure the antenna with supplied plastic nut.

Optionally the antenna can be installed below a suspended ceiling by using the provided M4 Threaded rod (x3) and M4 nuts.

#### Included with antenna



#### Optional Through Ceiling Mounting Bracket

Through ceiling mounting conceals the antenna with only the nose protruding through the ceiling. The base plate is hidden above the false ceiling which results in a 40% reduction of the visible antenna footprint.

**P/N: 62-17-09**



#### Optional Above Ceiling Mounting Bracket

The antenna can be installed above a suspended ceiling by using the optional above ceiling mounting bracket.

**P/N: 62-40-09**



### Ordering & Antenna Options

Part Number	Connector	Description	Mounting Type
02121304-05491U	N-Type (F)	PEAR™ S5491i	Below Ceiling
02121304-05491T	N-Type (F)	PEAR™ S5491i	with pre-installed Through Ceiling Mount
02125304-05491U	4.1-9.5 DIN (F)	PEAR™ S5491i	Below Ceiling
02125304-05491T	4.1-9.5 DIN (F)	PEAR™ S5491i	with pre-installed Through Ceiling Mount
02130304-05491U	4.3-10 DIN (F)	PEAR™ S5491i	Below Ceiling
02130304-05491T	4.3-10 DIN (F)	PEAR™ S5491i	with pre-installed Through Ceiling Mount
62-40-09		Above Ceiling Mounting Bracket	
62-17-09		Through Ceiling Mounting Bracket	
27-272-09		External Ground Plane (60x60 cm)	

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