

Broadband In-Building Antenna [380-6000 MHz]

PEAR™ S5491i

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).



380-6000 MHz Omni Antenna

Electrical Specifications

Frequency Band [MHz]	380-520	698-790	790-960	1695-2200	2300-2700	2700-6000
Input Connector Type	1x N-Type (F) or 1x 4.3-10 DIN (F) with cable (12", 30 cm)					
VSWR/Return Loss	< 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
VSWR / Return Loss with 60x60cm ext. baseplate	<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
Impedance	50 Ω					
Polarization	Vertical					
Horizontal Beamwidth	Omni (360°)					
Gain	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
Gain with 60x60cm ext. baseplate	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
Max Power / Port	50 Watts at ambient temperature 77°F (25°C)					
PIM @ 2x43 dBm	<-153 dBc for 4.3-10 DIN <-150 dBc for N-Type					

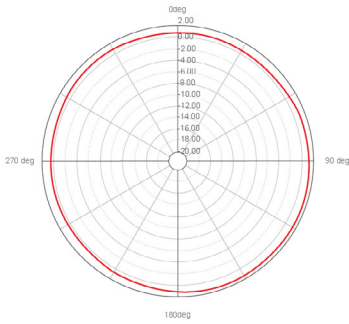
Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Environmental Conditions	Indoor
Antenna Weight	1.65 lbs (750g)
Antenna Dimensions (Diameter / Height)	13.2" / 4.88" (335 / 124mm)
Radome Material	PC/ABS (halogen free)
Radome Color	RAL 9016 (white)*
Outdoor Ingress Protection	IP65
Flamibility rating	UL 94-V0
RoHS	Compliant
Cable	Plenum Rated
Approved for use in Plenum Space	Listed & tested by Intertek ETL

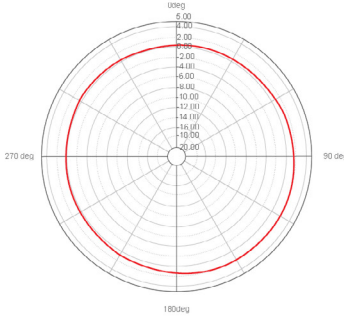
* Radome can be painted with recommended paint "Krylon fusion for plastic"

Release Date: October 25, 2017; Revision: A : S5491i

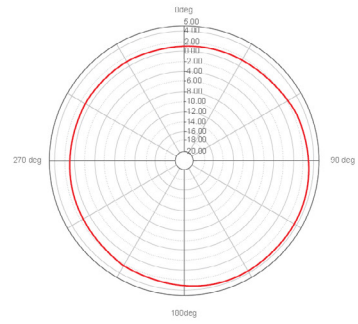
Antenna Patterns



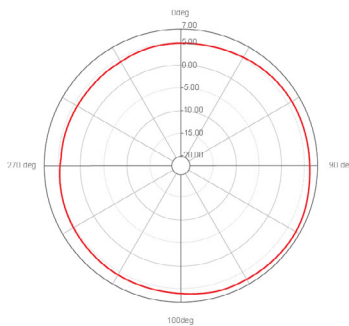
410 MHz



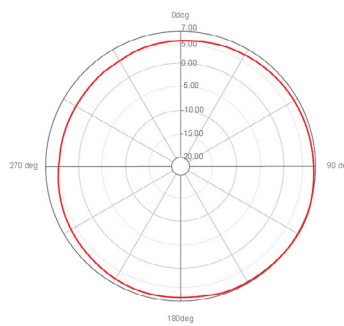
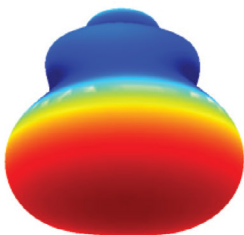
710 MHz



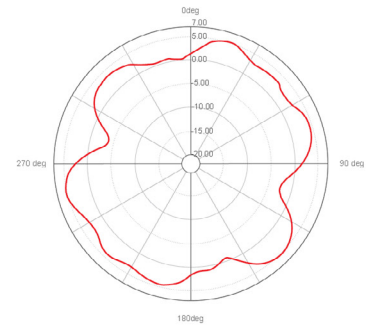
850 MHz



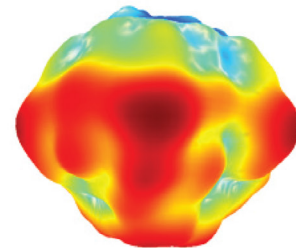
1910 MHz



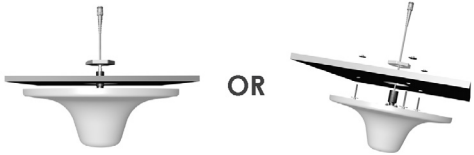


2500 MHz



5500 MHz



Part Numbers, Ordering Options and Accessories

Description:	Part Number:
Antenna with 1x N-Type (F) Connectors - Below Ceiling	02121304-05491U
Antenna with 1x N-Type (F) Connectors - with pre-installed Through Ceiling Mount	02121304-05491T
Antenna with 1x 4.3-10 DIN (F) Connectors - Below Ceiling	02130304-05491U
Antenna with 1x 4.3-10 DIN (F) Connectors - with pre-installed Through Ceiling Mount	02130304-05491T
Mounting Options:	Part Number:
<p>Below Ceiling Installation (Standard)</p> <p>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.</p> <p>Optionally the antenna can be installed below a suspended ceiling by using the provided M4 Threaded rod (x3) and M4 nuts.</p> <p>Included with antenna</p>	
<p>Through Ceiling Mounting Bracket (Optional)</p> <p>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>	 <p>62-17-09</p>
<p>Above Ceiling Mounting Bracket (Optional)</p> <p>The antenna can be installed above a suspended ceiling by using the optional above ceiling mounting bracket.</p>	 <p>62-40-09</p>

Matting Male Connector Torque:

N-Type: 26.6 in-lb (3 Nm)

4.3-10: 44.3 in-lb (5 Nm)