

Outdoor/In-Building Directional Antenna [380-470/698-960/1695-2700 MHz]

PEAR™ S5591i



Description:

- Directional wall mount antenna for outdoor and in-building applications such as DAS
- The antenna is vertically polarized and operates from 380-2700 MHz, including coverage for the public safety frequency band for TETRA

380-470, 698-960 and 1695-2700 MHz Directional Panel Antenna

Electrical Specifications

Frequency Band [MHz]	380-470	698-790	790-960	1695-2180	2180-2700
Input Connector Type	1x N-Type (F) or 1x 4.3-10 DIN (F) with cable (12", 30 cm)				
VSWR/Return Loss	< 3.7:1/4.8 dB	< 2.5:1/7.3 dB		< 1.8:1/10.9 dB	
Impedance	50 Ω				
Polarization	Vertical				
Vertical Beamwidth	>120°	80°	110°	70°	70°
Horizontal Beamwidth	>120°	100°	100°	75°	75°
Gain	2.0 dBi	5.0 dBi		7.0 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				

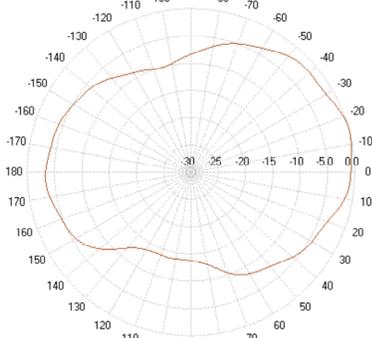
Mechanical Specifications

Operating Temperature	-67° to 158°F (-55° to +70°C)
Environmental Conditions	Outdoor/Indoor
Antenna Weight	1.3 lbs (600g)
Antenna Dimensions (H x W x D)	10.2" x 8.0" x 2.5" (256 x 200 x 65 mm)
Radome Color	RAL 9016 (white)*
Outdoor Ingress Protection	IP65
Flamibility rating	UL 94-V0
RoHS	Compliant
Cable	Plenum Rated

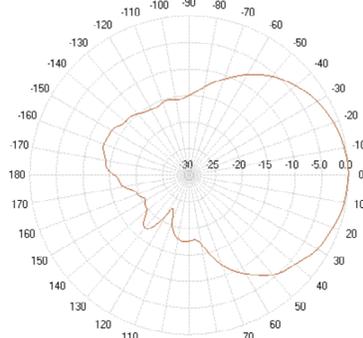
* Radome can be painted with recommended paint "Krylon fusion for plastic"

S55911 Revision: R2, Date: August 02, 2022

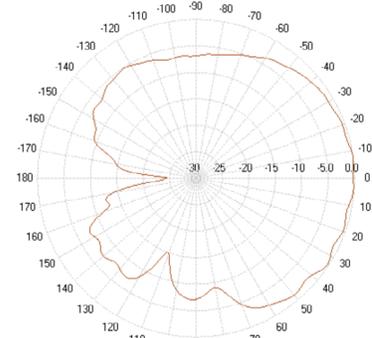
Antenna Patterns



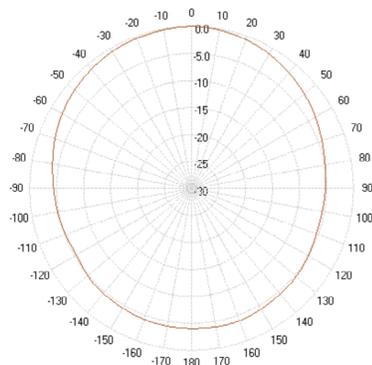
410 MHz



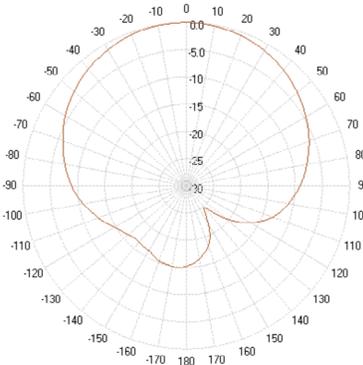
710 MHz



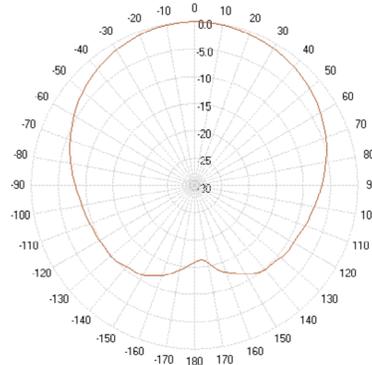
820 MHz



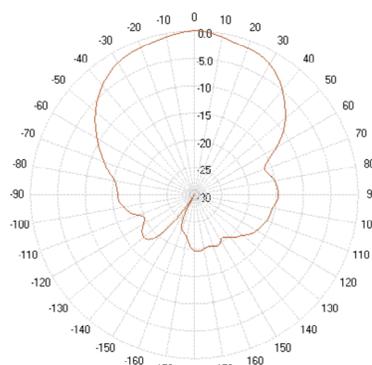
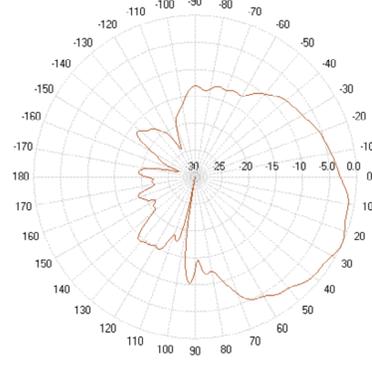
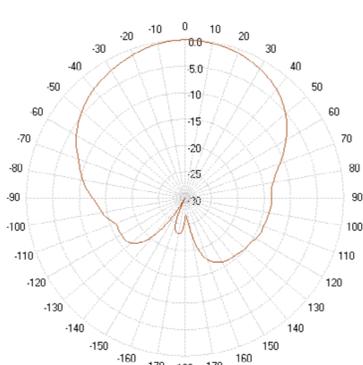
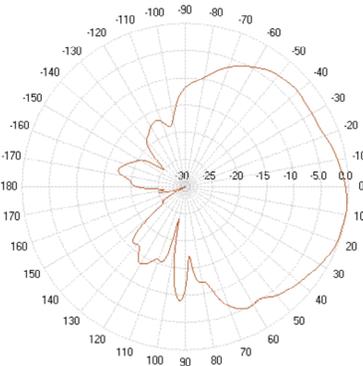
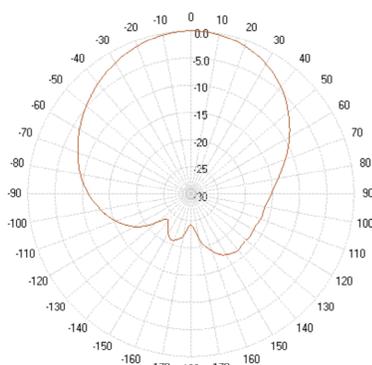
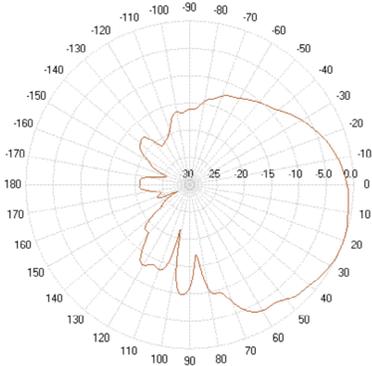
1730 MHz



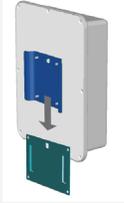
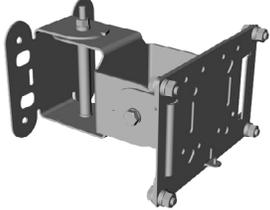
2070 MHz



2500 MHz



Part Numbers, Ordering Options and Accessories

Description:	Part Number:
Antenna with 1x N-Type (F) Connector	02121312-05591
Antenna with 1x 4.3-10 DIN (F) Connector	02130312-05591
Mounting Options:	Part Number:
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 as below:	
<p>Mounting Plate Installation (Standard)</p> <p>After affixing the mounting plate to the wall, then mount the antenna on to the mounting plate by sliding it into the slots and securing it with the provided fasteners.</p> <p>Included with antenna</p>	
<p>Swivel Mounting Bracket (Optional)</p> <p>Galtronics swivel mounting bracket offers an easy installation solution to mount Galtronics' PEAR panel antennas to either a pole or a wall. The mounting bracket allows a tilt of up to +/-45deg in the horizontal as well as in the vertical plane.</p>	 <p>62-29-03</p>

Mating Connector Torque:

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

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