

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				

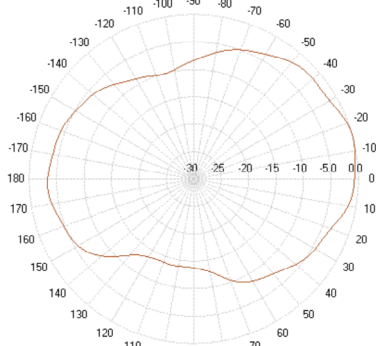
Mechanical Specifications

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
Flamability rating	UL 94-V0
RoHS	Compliant
Cable	Plenum Rated

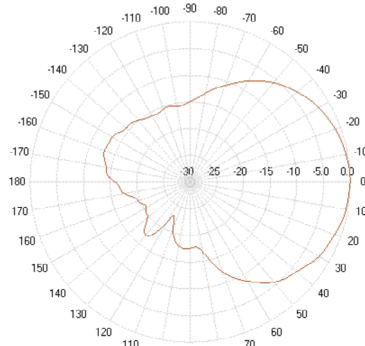
* Radome can be painted with recommended paint "Krylon fusion for plastic"

S5591i Revision: R2, Date: August 02, 2022

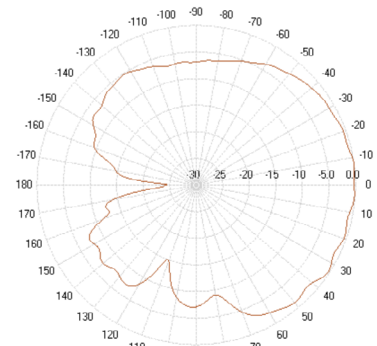
Antenna Patterns



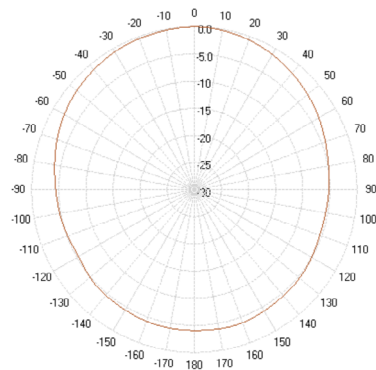
410 MHz



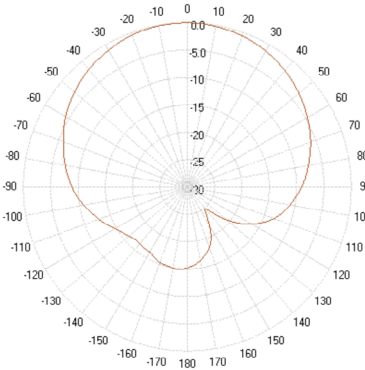
710 MHz



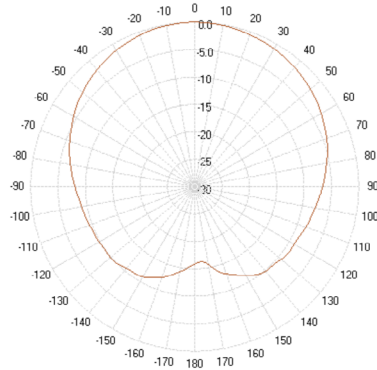
820 MHz



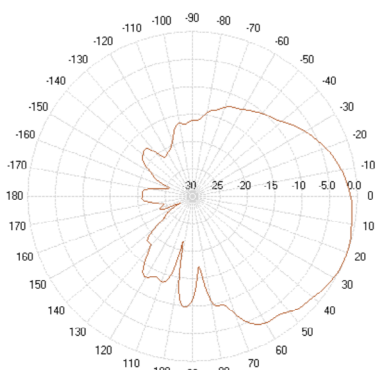
1730 MHz



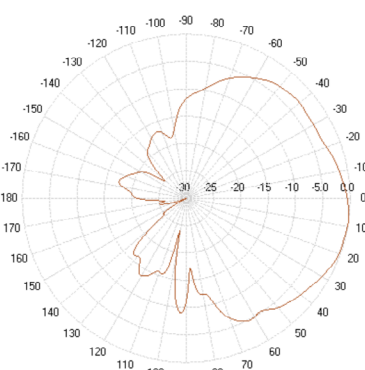
2070 MHz



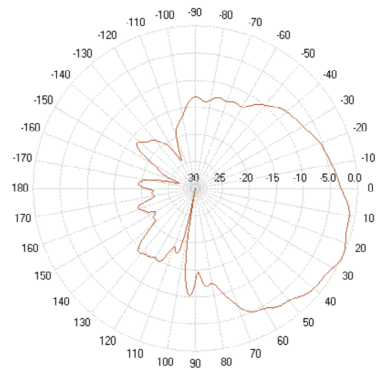
2500 MHz



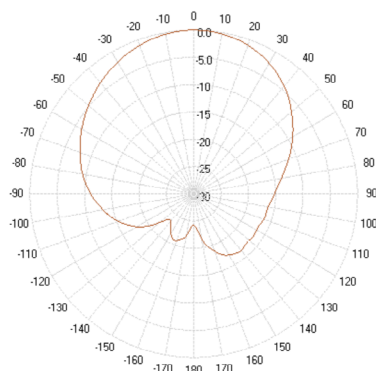
1730 MHz



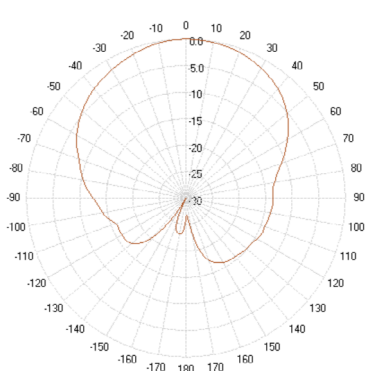
2070 MHz



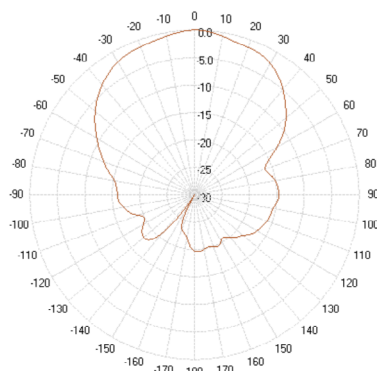
2500 MHz



1730 MHz

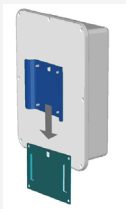
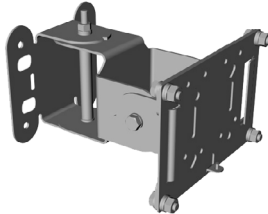


2070 MHz



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:	
Mounting Plate Installation (Standard) 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. Included with antenna	
Swivel Mounting Bracket (Optional) 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.	 <div>62-29-03</div>

Mating Connector Torque:

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

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