

ANTENNAS FOR PCTEL[®] SCANNING RECEIVERS

**mmWave and Sub-10 GHz Antennas
for Drive and Walk Testing**



INDOOR/OUTDOOR mmWAVE ANTENNAS

Our indoor/outdoor mmWave antennas provide excellent performance across 5G FR2 bands. These antennas supports both drive testing¹ and walk testing.²

For HBflex™ Scanning Receivers

OP313

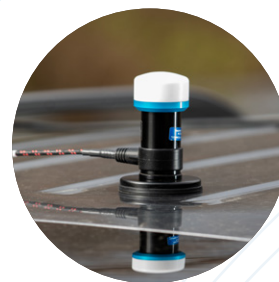
4.5 – 40 GHz
Thread Mount with
Attachable Magnetic
Mount



For Gflex™ Scanning Receivers

OP315

4.5 – 50 GHz
Thread Mount with
Attachable Magnetic
Mount



Specifications

	OP313	OP315
Frequency range	4.5 GHz – 40 GHz	4.5 GHz – 50 GHz
VSWR	<2.7:1 (20 to 40 GHz)	<2.7:1 (20 to 50 GHz)
Nominal impedance	50 Ω	50 Ω
Antenna dimensions	3.9" H x 2.1" OD 100 mm H x 55 mm OD	2.8" H x 2.1" OC 72 mm H x 55 mm OD
Cabling length	3.3 feet (1 m) ²	3.3 feet (1 m) ²
Mount dimensions	3.31" OD 84 mm OD	3.31" OD 84 mm OD

Cable Accessories

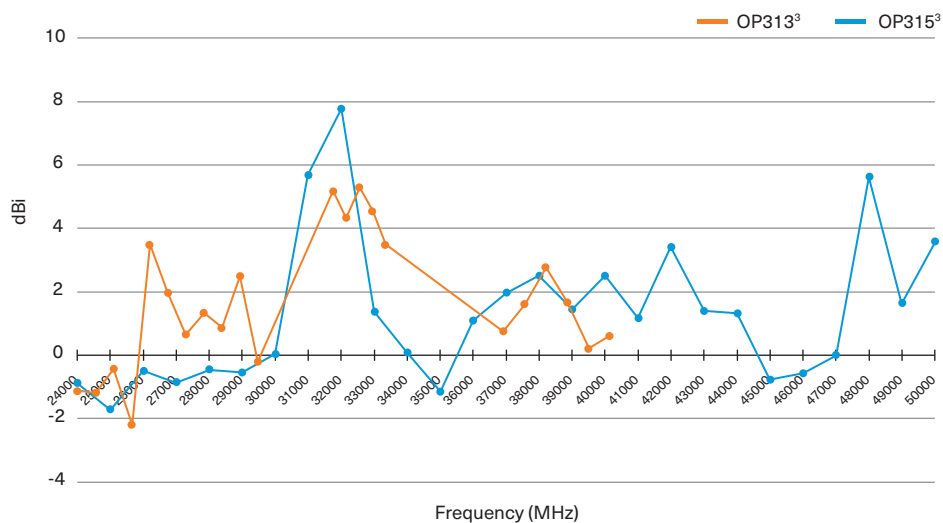
OP301-1

3.3-foot (1m) extension cable
for OP313

OP316-1

3.3-foot (1m) extension cable
for OP315

Peak Antenna Gain



¹ Walk testing requires a PCTEL mmWave walk test kit. See PCTEL Walk Test Kit Brochure for details.

² Drive testing may require a cable extension if the 1 meter pigtail on the OP313 or OP315 is not long enough. Drive test antenna packages include the 1 meter extension cable.

³ Measured without ground plane.

INDOOR ANTENNAS

Our indoor antennas provide excellent coverage across cellular, public safety, and private radio bands. These antennas are also suitable for outdoor walk testing.

OP452

136 – 870 MHz



OP558

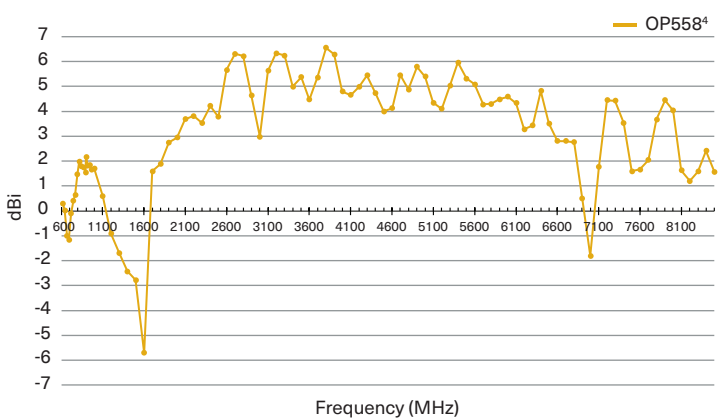
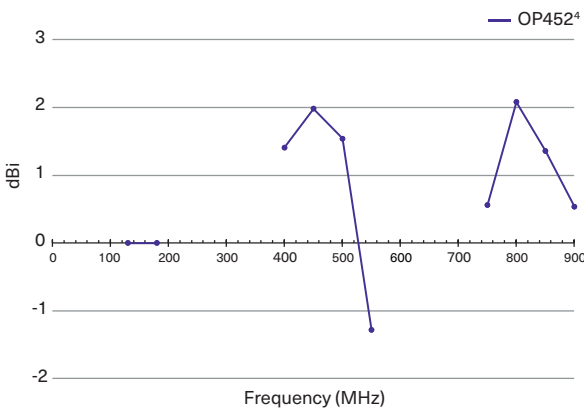
600 MHz – 8.5 GHz



Specifications

	OP452	OP558
Frequency ranges	136 – 174 MHz 380 – 520 MHz 764 – 870 MHz	600 MHz – 8.5 GHz
VSWR	<1.0:1	<3.0:1
Nominal impedance	50 Ω	50 Ω
Antenna dimensions	7.9" H x 0.6" OD (8.7" H w/ adapter) 200 mm x 15 mm OD (220 mm H w/ adapter)	8.8" H x 1.2" x 0.8" 223mm H X 30mm X 20mm

Peak Antenna Gain



⁴ Measured connected directly to IBflex® scanning receiver, which provides a ground plane of 4.4" x 1.55" (112 mm x 39 mm).

MOBILE OUTDOOR ANTENNAS

Vertically Polarized – for All Networks

PCTEL's vertically polarized sub-10 GHz high-performance outdoor antennas are designed to provide wide band coverage of full spectrum VHF, Tetra/UHF and 450 MHz to 10 GHz MHz frequencies. Permanent mount options are available upon request.

OP294

600 MHz – 10 GHz
Magnetic Mount



OP451

450 MHz – 6 GHz
Magnetic Mount



OP697

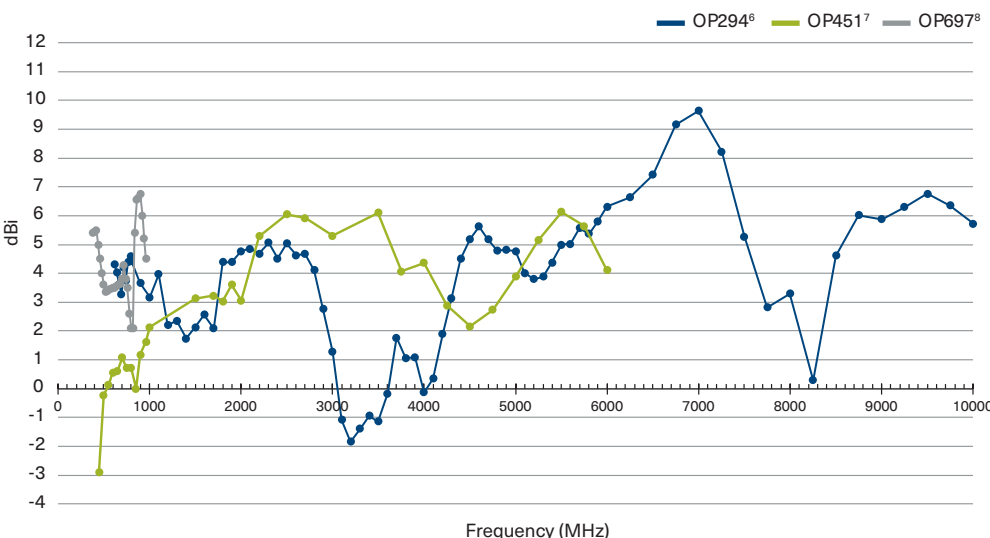
136 – 175 MHz
380 – 960 MHz
Extra Strength Magnetic Mount⁵



Specifications

	OP294	OP451	OP697
Frequency range	600 MHz – 10 GHz	450 MHz – 6 GHz	136 – 174 MHz / 380 – 960 MHz
VSWR	< 3.0:1	< 2.0:1	< 2.5:1
Nominal impedance	50 Ω	50 Ω	50 Ω
Antenna dimensions	3.38" H x 1.43" OD 86 mm H x 36 mm OD	4.2" H x 5.1" OD 107 mm H x 130 mm OD (Magnetic mount is integrated into the antenna)	22.0" H x 2.0" OD 559 mm H x 51 mm OD
Cabling length	12 feet (3.7 m)	12 feet (3.7 m)	12 feet (3.7 m)
Mount dimensions	3.31" OD 84 mm OD	See Antenna dimensions	3.31" OD 84 mm OD

Peak Antenna Gain



⁵ A required extra strength magnetic mount is included with the antenna.

⁶ Includes 12 foot (3.7 m) cable and connector. Measured on 3 foot (0.91 m) ground plane.

⁷ Includes 12 foot (3.7 m) cable and connector. Measured on 2 foot (0.61 m) ground plane.

⁸ Does not include cable loss. Measured on 4 foot (1.22 m) ground plane. Unity gain for 136-174 MHz.

MOBILE OUTDOOR ANTENNAS

Horizontally Polarized – for Networks With Dual Polarization Beamforming

PCTEL's horizontally polarized antennas are specifically designed to support accurate testing of dual polarization beamforming when paired with our vertically polarized antennas. Their unique design provides high performance omnidirectional coverage.

OP717

3.3 – 4.2 GHz
Magnetic Mount



OP723

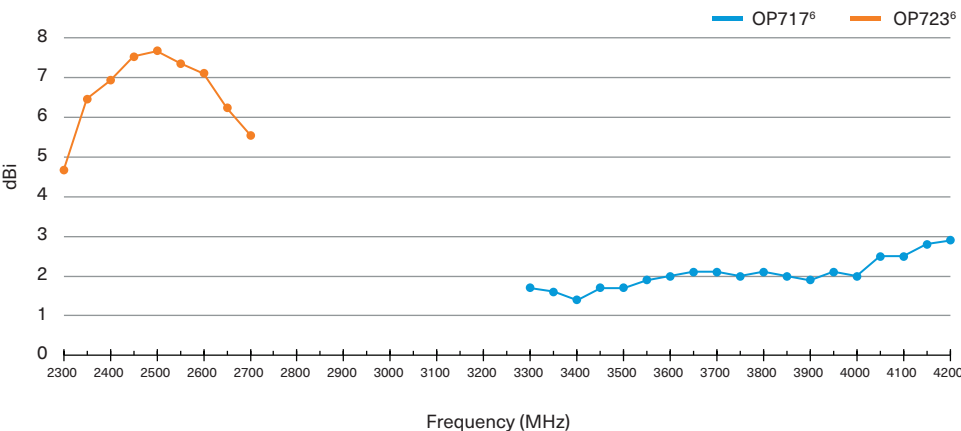
2.3 – 2.7 GHz
Magnetic Mount



Specifications

	OP717	OP723
Frequency range	3.3 – 4.2 GHz	2.3 – 2.7 GHz
VSWR	<1.9:1	<2:1
Nominal impedance	50 Ω	50 Ω
Antenna dimensions	5.6" H x 1.3" OD 142 mm H x 32 mm OD	12.6" H x 1.3" OD 321 mm H x 32 mm OD
Cabling length	15 feet (4.6 m)	15 feet (4.6 m)
Mount dimensions	3.46" OD 88 mm OD	3.46" OD 88 mm OD

Peak Antenna Gain



⁶ Includes 15 foot (4.6 m) cable and connector. Measured on 2 foot (0.61 m) ground plane.

**For more information about
these products contact your
sales representative or visit**

> pctel.com/scanning-receivers

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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