

Outdoor Mobile Antennas

For PCTEL® Scanning Receivers

OP451 | OP697 | OP278H | OP286H



OP451

450 MHz – 6 GHz Multi-Band Mag Mount, High performance, 12-foot cable (3.7 m)



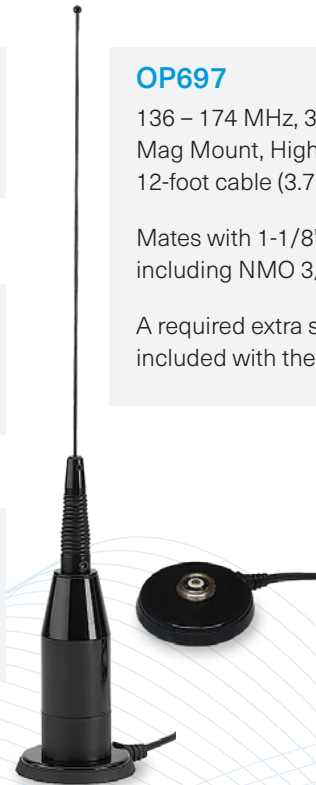
OP278H

698 – 3800 MHz, Multi-Band Mag Mount, High performance, 12-foot cable (3.7 m)



OP286H

698 – 3800 MHz, Multi-Band Permanent Mount, High performance, 12-foot cable (3.7 m)



OP697

136 – 174 MHz, 380 – 960 MHz Multi-Band Mag Mount, High performance, 12-foot cable (3.7 m)

Mates with 1-1/8" – 18 threaded mounts, including NMO 3/4" hole mounts

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

PCTEL's high-performance magnetic and permanent mount outdoor antennas are carefully designed to provide wide band coverage of full spectrum VHF, TETRA/UHF and 450 to 6000 MHz frequencies, with excellent VSWR performance across frequencies and no tuning required. Magnetic mount antennas can be conveniently installed on any any ferrous metal surface, a surface with a grounding plate or an optional permanent mount adapter.



Mobile Precision Antennas Specifications

	OP697	OP451	OP278H	OP286H
Frequency range	136 – 174 MHz / 380 – 960 MHz	450 MHz – 6 GHz	698 MHz – 3800 MHz	698 MHz – 3800 MHz
Gain	Refer to Antenna Gain graph below Unity gain for 136-174 MHz ¹	Refer to Antenna Gain graph below ²	Refer to Antenna Gain graph below ²	Refer to Antenna Gain graph below ²
VSWR	< 2.0:1 typical	< 2.0:1	< 2.0:1	< 2.3:1
Nominal impedance	50 Ω	50 Ω	50 Ω	50 Ω
Physical antenna	22" H x 2" OD 50.8 x 558.8 mm H x 50.8 mm OD	4.2" H x 5.1" OD 107 mm H x 130 mm OD (Magnetic mount is integrated into the antenna)	2.4" H x 1.5" OD 61 mm H x 38 mm OD	2.4" H x 1.5" OD 61 mm H x 38 mm OD
Cabling length	12 feet 3.7 m	12 feet 3.7 m	12 feet 3.7 m	12 feet 3.7 m
Physical mount	3.31" OD 84 mm OD	See Physical Antenna	3.31" OD 84 mm OD	Requires 0.75" (19 mm) hole

¹ Does not include cable loss. Measured on 4 foot ground plane.

² Includes 12 foot cable and connector. Measured on 2 foot ground plane.

Mounting Accessories

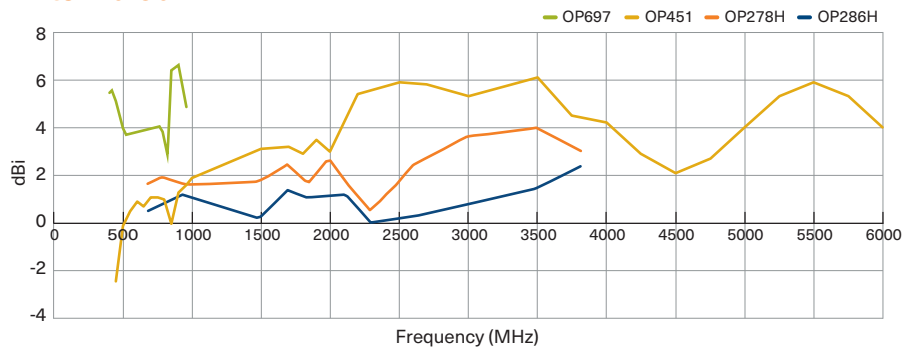
OP087

Replacement Magnetic Mount Base for OP278H with 12-foot (3.7 m) cable

OP212H

Replacement Magnetic Mount Base for OP278H with 12-foot (3.7 m) cable

Antenna Gain



Solving Complex RF Challenges

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

For more information, contact your sales representative or visit

pctel.com/scanning-receivers



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