

Circularly Polarized Collinear Omni Antennas



CPO235-4.5-R

Peak Antennas' Circularly Polarized (CP) Collinear Omni antenna arrays give omnidirectional coverage with low azimuth pattern ripple, good axial ratio and consistent elevation patterns. Available gains are 2, 4.5, 6, 8, and 11 dBi (from 1 to 8 tiers).

Circular polarization is advantageous in uplink / downlink situations where the helicopter, airplane or blimp can be anywhere from overhead to just above the horizon.

These omnidirectional antenna arrays complement Peak's QHO and XDU circularly polarized antennas, and are available either as stand-alone antennas or packaged as a dual antenna with either a QHO or XDU uplook antenna set above the omni antenna in the same radome (see Uplook/Outlook antenna data sheet).

The antennas are housed in robust fiberglass tubes, and feature an enhanced dual barrier water-seal at the top, comprising an aluminum overcap RTV'ed over a delrin top cap that is glued into the tube. There is a breathe hole in the base.

CPO460-8-R



All the antennas feature:

Gain:	2, 4.5, 6, 8 or 11 dBi
Frequency:	See schedule over
Elevation B/W (for omni antenna):	75, 35, 27, 18 or 9 degrees
Azimuth B/W:	360 degrees (omni, +/-1dB ripple)
Polarization:	RHCP or LHCP
Axial Ratio:	3dB typical
Return loss:	14dB typical (1.5 to 1 VSWR)
Diameter and Length:	See schedule over
Connector:	N female or N male
Mount:	Stainless steel bracket and U bolts (except for -2 antennas, see over)

PEAK ANTENNAS

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Designation	Frequency	Polarization	Gain	Elevation B/W	Diameter	Length
CPO180-4.5-R	1.70-1.90 GHz	RHCP	4.5dBi	35 degrees	118 mm	290 mm
CPO215-6-R	2.00-2.30 GHz	RHCP	6dBi	27 degrees	104 mm	335 mm
CPO215-4.5-R	2.00-2.30 GHz	RHCP	4.5dBi	35 degrees	104 mm	230 mm
CPO225-2-R	1.98-2.50 GHz	RHCP	2dBi	75 degrees	86 mm	105 mm
CPO235-4.5-R	2.20-2.50 GHz	RHCP	4.5dBi	35 degrees	104 mm	220 mm
CPO235-6-R	2.20-2.50 GHz	RHCP	6dBi	27 degrees	104 mm	322mm
CPO255-6-R	2.40-2.70 GHz	RHCP	6dBi	27 degrees	104 mm	285 mm
CPO460-4.5-R	4.40-4.80 GHz	RHCP	4.5dBi	35 degrees	60 mm	172 mm
CPO460-8-R	4.40-4.80 GHz	RHCP	8dBi	18 degrees	60 mm	270 mm
CPO460-11-R	4.40-4.80 GHz	RHCP	11dBi	9 degrees	60 mm	466 mm

Note: The -2 antenna is available either with a through hole flange mount or as a connector mount. All the other CP Omni antennas are supplied with stainless steel bracket and U bolts.

LHCP versions and other frequency bands and gains available, please contact us.



CPO225-2-R
(connector mount)

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