

BENELEC

Professional Wireless Products

ISM OD Series Omni Antennas

Models – 029313, 029314, 029315 & 029316



OD9, OD12
and OD6
Shown



OD9 Mounted with
Reflector Kit

For WLAN, Video, and Data Systems

- 3dBi, 6dBi, 9dBi & 12dBi antennas provide uniform omni coverage
- Unique design allows economical build out
- Mounting kit includes all hardware needed
- Reflector option provides directional beam shaping & increased performance

The OD Series Antennas are optimized for use in a wide variety of wireless systems. They are usable in point to point, multi-point and broadcast configurations. Typical uses include WLAN access points or bridge (802.11), and video surveillance transmitters.

These antennas consist of a collinear array with elements stacked vertically. Unique phasing cancels out-of-phase current distribution, improving system performance. This

design maintains an omni pattern in the horizontal plane. The OD Series are free space antennas and can be mounted anywhere; no ground plane is required.

An option for the OD Series is a reflector kit that beam shapes the omni pattern into a directional cardioid shape. This can result in improved directional gain, and isolation for reduced interference.

The low profile black Radome (25mm diameter) makes the antennas durable and rugged. They can withstand the harshest environments of snow, wind, rain and ice. The feed assembly is made of precision-machined aluminium components and is irradiated for weather protection. The antennas come with all the hardware needed to install them to a mast. The OD antennas normally terminate with a female N connector. Optional models include pigtail cable with connector. For ISM, Part 15 compliant connectors are available (reverse polarized), please consult factory.

<u>Model</u>	<u>Frequency</u>	<u>Gain</u>	<u>Applications</u>
029313 OD3	2400 – 2485 MHz	3dBi	WLAN, ISM, Video
029314 OD6	2400 – 2485 MHz	6dBi	WLAN, ISM, Video
029315 OD9	2400 – 2485 MHz	9dBi	WLAN, ISM, Video
029316 OD12	2400 – 2485 MHz	12dBi	WLAN, ISM, Video

For pigtail cable options and special frequencies, please consult factory for latest model numbers and configurations.

<u>Options</u>	<u>Model</u>
Reflector kit for 6dBi model	029314R
Reflector kit for 9dBi model	029315R
Reflector kit for 12dBi model	029316R

Specifications

Frequency & Gain:	See above	Length/Weight:	
Bandwidth @2:1 SWR:	See Above	029313 OD3	41cm approx, 0.7 kg
Nominal Impedance:	See frequency above	029314 OD6	48cm approx, 0.7 kg
Max Power (continuous):	100 ohm nominal	029315 OD9	69cm approx, 0.96 kg
Vertical Beamwidth (-3dB point):	50 watts	029316 OD12	104cm approx, 1.1 kg
029313 OD3	55 Degrees	OD Series Interface:	N Female Connector
029314 OD6	25 Degrees	Mounting Kit:	Mast mount kit included
029315 OD9	14 Degrees	Mounting Dimension:	Use mast up to 50mm OD
029316 OD12	7 degrees	Material:	Polycarbonate with aluminium body Fibreglass Radome on OD12 with aluminium body.
Wind loading (flat plate equiv.):	190 – 260 sq.cm	Options:	Reflector Kit Option Pigtail Cable Option Part 15 Reverse Connectors
Rated Wind Velocity:	160+ kph		
Lightning Protection:	External suggested		
Antenna Diameter:	25mm main mast		

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