



HP 2.0 dBi Dual-Band 6-Element MIMO Omni Directional Antenna (J9659A) Guide

SAFETY

The HP J9659A and all associated equipment should be installed in accordance with all applicable local and national electrical code guidelines to ensure safe operation.

Before connecting an external antenna to an HP Wireless Access Point, be sure that the access point radio power levels are set in accordance with local regulatory requirements. For information on setting radio power levels, see *Transmit power control* in the *MSM3xx/4xx Access Points Management and Configuration Guide*. For mandatory antenna power settings by country/region, look for *Antenna Power-Level Setting Guide (for MSM products)* at www.hp.com/networking/support.

Please read all instructions carefully before attempting to install and use this product.

Grounding: Proper system grounding is essential.

SPECIFICATIONS

Item	Specification
Frequency, MHz)	2.4-2.5 GHz & 5.15-5.85 GHz
Gain with 33" cable (dBi)	2.0 dBi
VSWR Maximum	2:1
3 dB Beamwidth – Azimuth	Omnidirectional
3 dB Beamwidth – Elevation	75°: 2.4-2.5/45°: 5.15-5.85
Polarization	Linear 6 Vertical
Maximum Input Power	5 Watts
Cable Length in.(mm)	33" (838.2 mm) Plenum rated
Mechanical Size in. (mm)	8.6" x 1.7" (219 x 44 mm)
Weight	1.5 lb. (0.7 kg)
Antenna Connection	RP-SMA (6x)
Radome Enclosure	ASA
Mount Style	Ceiling Grid/Suspended Tile
Water/Dust Seal Rating	IP67

WARRANTY AND SUPPORT INFORMATION

See the warranty and support information included with this product. For the latest information, go to www.hp.com/networking/support.

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DESCRIPTION

The HP J9659A is an indoor ceiling grid-mounted omnidirectional array especially designed for use with dual-radio 802.11n access points. Six independent vertically polarized radiators provide null-free omnidirectional coverage for meeting rooms, offices, departmental areas, or other enclosed spaces.

ANTENNA LOCATION

For best results, mount the HP J9659A at ceiling level near the center of the coverage area. A line-of-sight path between the antenna and active floor locations works best. Avoid mounting next to a column or vertical support that could create a shadow zone and reduce coverage to a portion of the room.

INSTALLATION

A threaded post on the back of the antenna and a supplied mounting nut are the primary mounting method when access is available to both sides of the mounting surface, such as a suspended ceiling tile. Mark the desired mounting location on the tile and cut a 40mm (1.57") hole. Feed the cables through the hole and secure the Antenna with the mounting nut. The included rubber locking gasket should only be used with the mounting nut when mounting to a hard surface. If access is limited to the back of the mounting surface, there are two mounting holes that can be used with #8 screws and expanding anchors (not supplied).

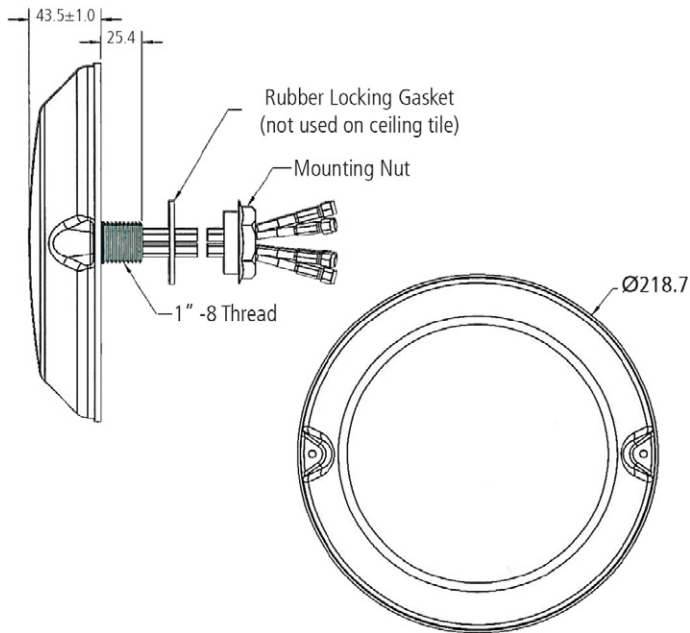
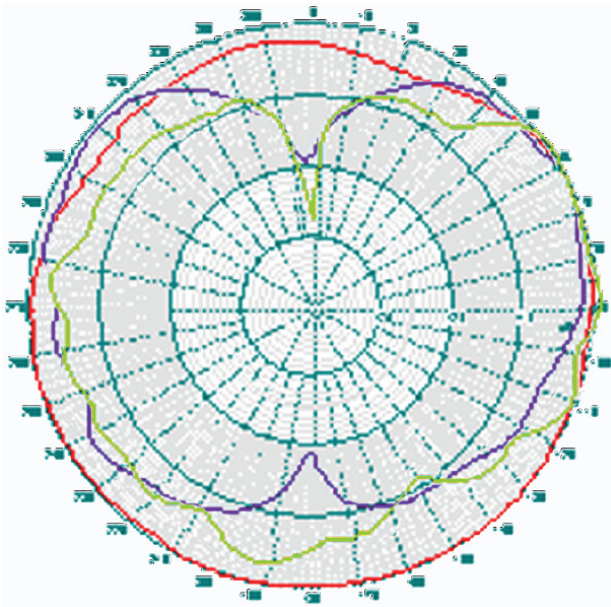


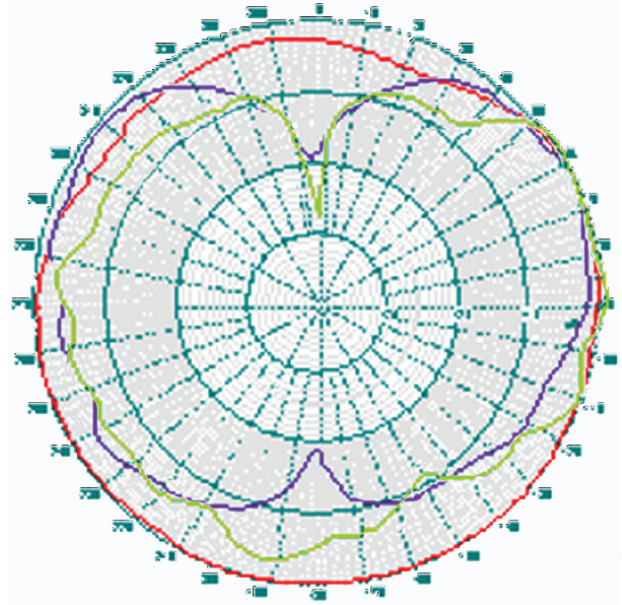
Figure 1

J9659A Omni Antenna Radiation Plots



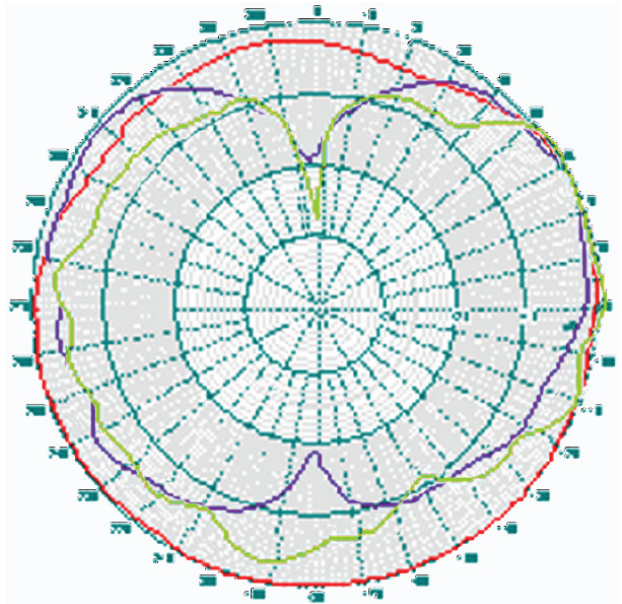
2.45 GHz

J9659A Omni Antenna Radiation Plots



5.47 GHz

These are temporary low-quality placeholder images. Expect to replace with high-quality plots for 2.45, 5.47, and 5.72 GHz.



5.725 GHz

Legend

- H-Plane
- E0-Plane
- E90-Plane