

OP24516DS

6-Port MIMO Pole/Mast Mount Antenna 2400-2500 MHz/5150-5875 MHz

The OP24516DS antenna is an indoor/outdoor pole mounted omnidirectional antenna designed for 802.11n applications. As a 6-element MIMO antenna, each port operates over the 2.4GHz and 5 GHz bands, providing a broadband solution in a single radome. It features a low profile radome and is designed to withstand the rigors of outdoor applications with an IP67 Ingression Protection rating. The radiation patterns are uniform and symmetrical, providing high levels of signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11n systems.

FEATURES AND BENEFITS

- Low profile esthetically neutral housing
- Both indoor/outdoor
- Six-element MIMO solution
- IP67 rating
- Conformance to RoHS

ELECTRICAL SPECIFICATIONS		
Operating Frequency (MHz)	2400-2500	5150-5875
Gain (dBi)	2.0 typical (2.8 max)	4.8 typical (6.5 max)
Vertical Plane 3 dB Beamwidth	66°	30°
Horizontal Plane 3 dB Beamwidth	360°	360°
Isolation Port-to-port (dB)	20	25
Number of Ports	6	
VSWR – Max	2.0:1	
Nominal Impedance (Ohms)	50	
Polarization	Linear, Vertical	
Max Power - Ambient 25°C (W)	30 (5W x 6 ports)	

MECHANICAL SPECIFICATIONS	
Dimensions – diameter x height – mm (inches)	209.6 x 116.5 (8.25 x 4.59)
Weight – kg (lbs.)	1.6 (3.53)
Cable Type	Plenum rated RG58
Radome Material	Polycarbonate, white

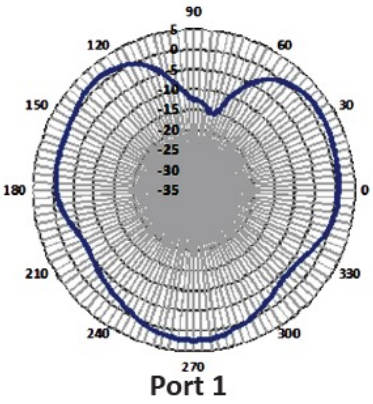
ENVIRONMENTAL SPECIFICATIONS	
Wind Survival – km/hr (mph)	200 (125)
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection Rating	IP67

CONFIGURATION

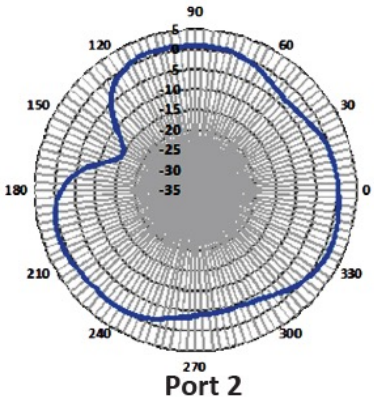
PART NUMBER	CABLE LENGTH	CONNECTOR
OP24516DS-91NM	Six at 910 mm ±18 mm (Six at 36 in ±0.71 in)	Six, Type N
OP24516DS-91RSMM	Six at 910 mm ±18 mm (Six at 36 in ±0.71 in)	Six, Reverse Polarity SMA Male

RADIATION PATTERNS

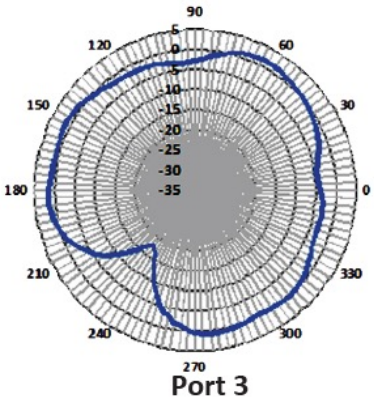
AZIMUTH, 2400 MHz



Port 1

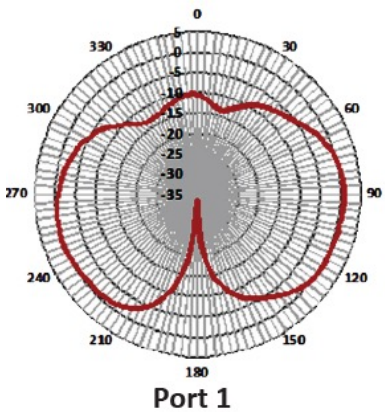


Port 2

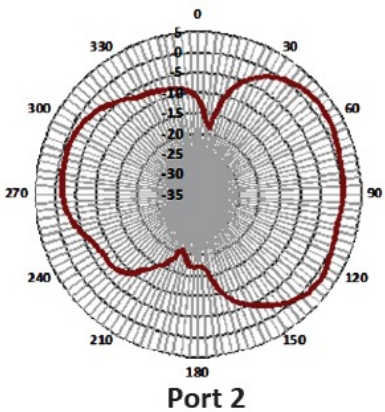


Port 3

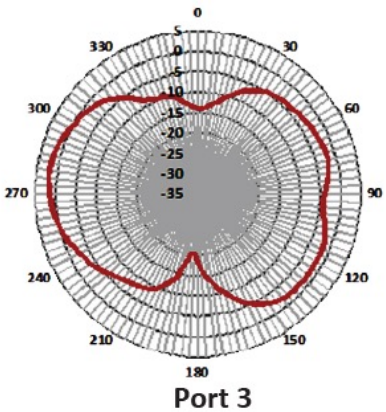
ELEVATION, 2400 MHz



Port 1

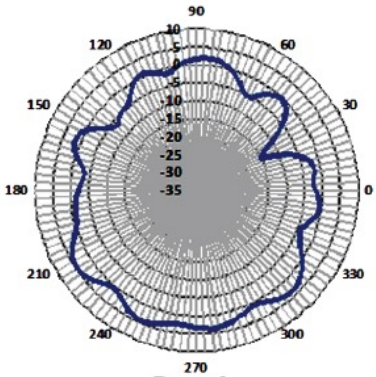


Port 2

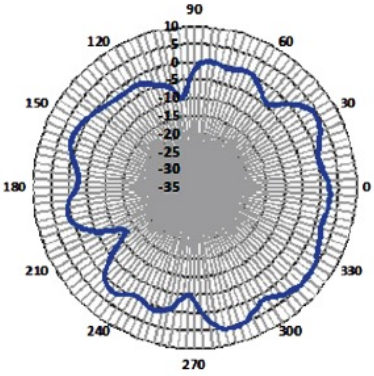


Port 3

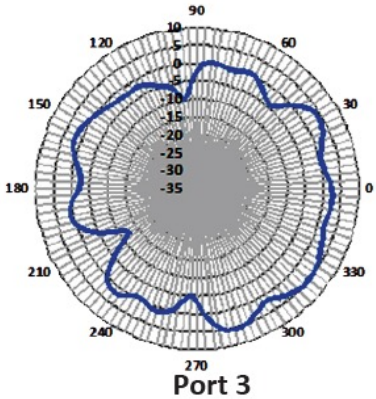
AZIMUTH, 5550 MHZ



Port 1

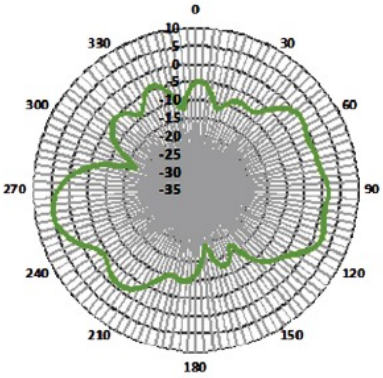


Port 2

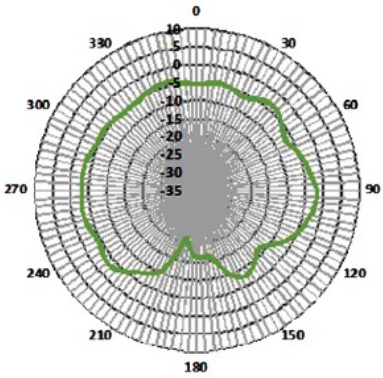


Port 3

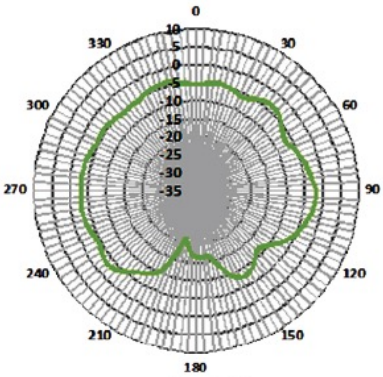
ELEVATION, 5550 MHZ



Port 1



Port 2



Port 3

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

©2021 TE Connectivity. All Rights Reserved.

11/21 Original