

VD-DMF-43-UW153



ValuDAS® Low PIM Directional MIMO In-Building Antenna, 600–960 MHz, 1427–4200 MHz, and 4900–6000 MHz

Product Classification

Product Type In-building antenna

Product Brand ValuDAS®

General Specifications

Application Indoor

Antenna Type Directional

Antenna Array Characteristic MIMO 2x2

Polarization $\pm 45^\circ$

Color Signal white (RAL 9003)

Number of Ports 2

Radome Material ABS, UV resistant

RF Connector Interface 4.3-10 Female

Dimensions

Height 315 mm | 12.402 in

Width 195 mm | 7.677 in

Depth 74 mm | 2.913 in

Pigtail Length 300 mm | 11.811 in

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 4200 MHz | 4900 – 6000 MHz | 600 – 698 MHz | 698 – 960 MHz

Electrical Note Values typical, unless otherwise stated

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Electrical Specifications

Frequency Band, MHz	600–698	698–960	1427–4200	4900–6000
Gain, dBi	6	7	7	8
Beamwidth, Horizontal, degrees	95	85	65	25
Beamwidth, Vertical, degrees	60	65	45	15
Isolation, Cross Polarization, dB	10	10	15	25
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153
Input Power per Port, maximum, watts	100	100	100	100

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
600–698 MHz	2.5	7.36	1.8	10.88
698–960 MHz	2.5	7.36	1.8	10.88
1427–4200 MHz	2.2	8.52	1.8	10.88
4900–6000 MHz	2.5	7.36	1.8	10.88

Environmental Specifications

Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F)

Relative Humidity Up to 100%

Packaging and Weights

Width, packed	220 mm 8.661 in
Depth, packed	90 mm 3.543 in
Length, packed	490 mm 19.291 in
Weight, gross	1.6 kg 3.527 lb
Weight, net	1.3 kg 2.866 lb