

# CMAX-DMF4-43-WI53



Low PIM Directional 4X4 MIMO Outdoor Antenna, 698–960 MHz, 1695–2700 MHz and 3300–4200MHz

## Product Classification

**Product Type** Indoor/outdoor antenna

## General Specifications

**Application** Indoor/Outdoor  
**Antenna Type** Directional  
**Antenna Array Characteristic** MIMO 4x4  
**Polarization**  $\pm 45^\circ$   
**Color** White (RAL 9016)  
**Number of Ports** 4  
**Pigtail Cable** 670-141SXE, plenum rated  
**Radome Material** ASA+PC, UV stabilized  
**RF Connector Interface** 4.3-10 Female

## Dimensions

**Width** 332 mm | 13.071 in  
**Depth** 100 mm | 3.937 in  
**Length** 458 mm | 18.032 in  
**Pigtail Length** 450 mm | 17.717 in

## Electrical Specifications

**Impedance** 50 ohm  
**Operating Frequency Band** 1695 – 2700 MHz | 3300 – 4200 MHz | 698 – 960 MHz  
**Electrical Note** Values typical, unless otherwise stated

## Electrical Specifications

Frequency Band, MHz	698–800	800–960	1695–2200	2200–2700	3300–4200
Gain, dBi	7	7.5	7.5	7.8	7.7

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<b>Beamwidth, Horizontal, degrees</b>	90	80	71	67	68
<b>Beamwidth, Vertical, degrees</b>	70	69	72	73	69
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	15	15	15	15	15
<b>Isolation, Cross Polarization, dB</b>	18	20	25	25	25
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	100	100	100	100	100

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR, Maximum</b>	<b>Return Loss, Maximum (dB)</b>	<b>VSWR, Mean</b>	<b>Return Loss, Mean (dB)</b>
<b>698–800 MHz</b>	1.697	11.75	1.499	14
<b>800–960 MHz</b>	1.697	11.75	1.499	14
<b>1695–2200 MHz</b>	1.697	11.75	1.499	14
<b>2200–2700 MHz</b>	1.697	11.75	1.499	14
<b>3300–4200 MHz</b>	1.697	11.75	1.499	14

## Mechanical Specifications

**Wind Loading @ Velocity, maximum** 473.0 N @ 241 km/h (106.3 lbf @ 150 mph)

## Environmental Specifications

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

**Relative Humidity** Up to 100%

**Ingress Protection Test Method** IEC 60529:2001, IP65

## Packaging and Weights

**Width, packed** 390 mm | 15.354 in

**Depth, packed** 215 mm | 8.465 in

**Length, packed** 665 mm | 26.181 in

**Included** Mounting bracket

**Net Weight, with mounting kit** 4.3 kg | 9.48 lb

**Packaging quantity** 1

**Weight, gross** 6.2 kg | 13.669 lb

## Regulatory Compliance/Certifications

# CMAX-DMF4-43-WI53

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**Agency**

CHINA-ROHS  
REACH-SVHC  
ROHS  
UK-ROHS

**Classification**

Below maximum concentration value  
Compliant as per SVHC revision on [www.andrew.com/ProductCompliance](http://www.andrew.com/ProductCompliance)  
Compliant  
Compliant

