



# OCX24688-FNM

## Wi-Fi 6E Tri-Band Omni Array Antenna 2.4-2.484, 4.9-7.125 GHz

The OCX24688-FNM is a 2.4-2.484 / 4.9-7.125 GHz tri-band omnidirectional array antenna especially designed to complement interior or exterior mounted Wi-Fi 6E wireless network systems.

The integrated male N-connector is embedded in the antenna base cap for direct AP mounting. Sealing permits either upright or inverted orientation in outdoor locations. The antenna may also be pole-mounted when separation from the AP is required for optimal positioning.

## FEATURES AND BENEFITS

- Tri-Band Wi-Fi coverage including legacy Wi-Fi, Wi-Fi 6, Wi-Fi 6E and Wi-Fi 7
- IP67 outdoor rated
- Direct mounting to access points or pole/mast mountable
- Suitable for upright or inverted orientation in both indoor and outdoor locations

## APPLICATIONS

- WLAN
- Wi-Fi - Wi-Fi 7 (802.11be), Wi-Fi 6E (802.11ax), Wi-Fi 6 (802.11ax), Wi-Fi 5 (802.11ac), Wi-Fi 4 (802.11n), 802.11b/g
- Automation and control
- Outdoor and indoor rated

## ELECTRICAL SPECIFICATION

Operating Frequency (MHz)	2400-2484	4900-4990	5170-5330	5490-7125
VSWR - Average	<2.5:1	<2.2:1	<2.0:1	<2.0:1
Peak Gain - Max (dBi)	5.0	5.5	6.7	7
Average Gain, Near Horizon (dBi)	3.5 ± 0.5	5.0 ± 1.0	5.0 ± 1.0	5.5 ± 1.0
Average 3 dB Beamwidth (°)	37	23	22	20
Input Max Power (W)		2		
Polarization		Linear, Vertical		
Azimuth Beamwidth (All Models)		360°, Omnidirectional		
Nominal Impedance (Ohms)		50		

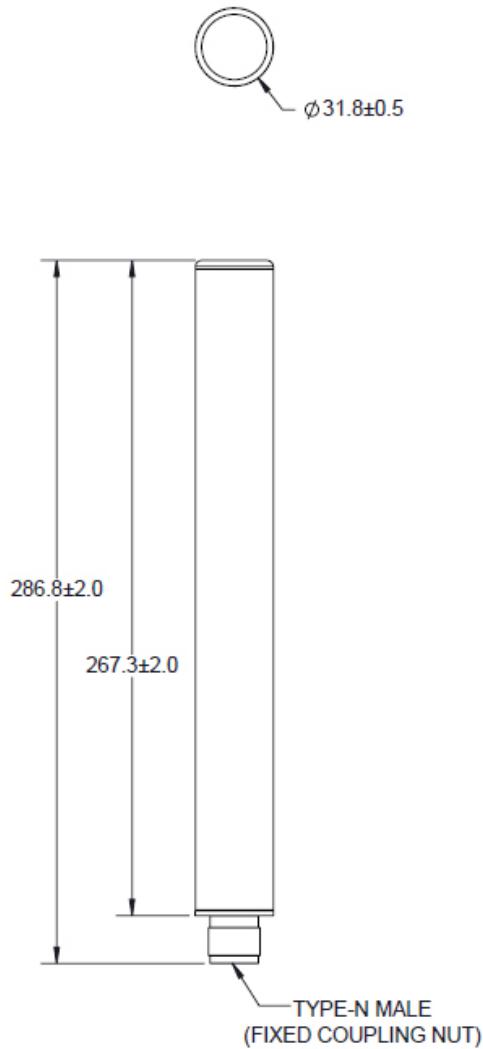
## MECHANICAL SPECIFICATION

Dimensions - height x circumference - mm (in.)	287 x 32Ø (11.3 x 1.26)
Weight - g (lbs.)	137 (0.3)
Radome	Polycarbonate, UV (White)
Cap and Base	ASA, UV

## ENVIRONMENTAL SPECIFICATION

Operating Temperature - °C (°F)	-40 to +70°C (-40 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection (IP Rating)	IP67
Material Substance Compliance	RoHS Compliant CE & UKCA
Wind Loading (mph)	165

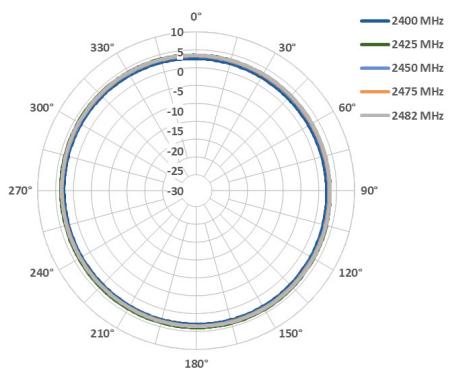
## MECHANICAL DRAWINGS



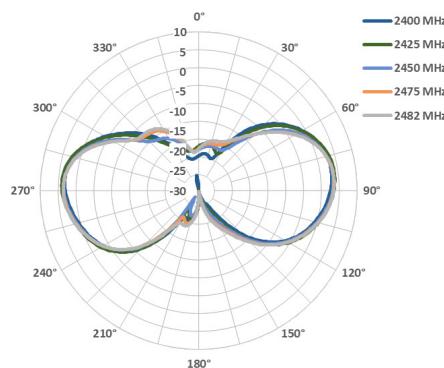
## RADIATION PATTERNS

### Radiation Patterns at 2.4 - 2.484 GHz

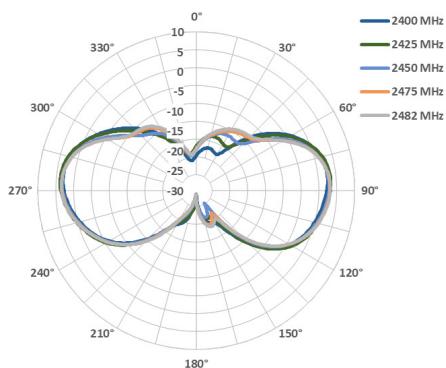
Azimuth Plane



Phi 0° Plane

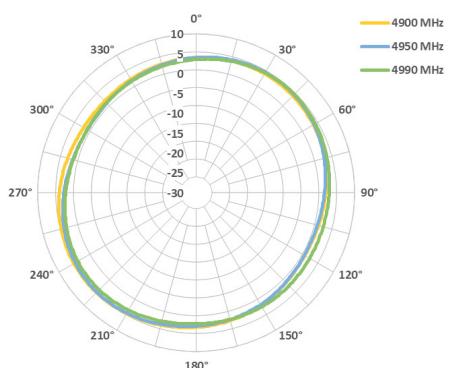


Phi 90° Plane

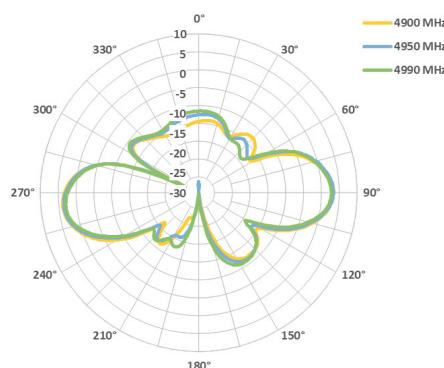


### Radiation Patterns at 4.9 - 4.99 GHz

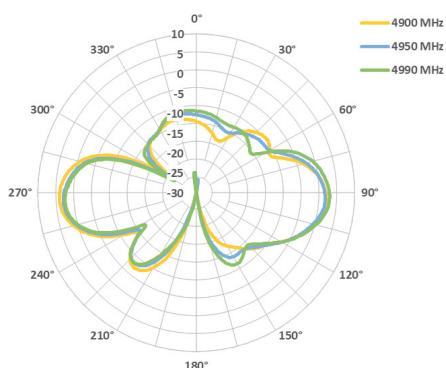
Azimuth Plane



Phi 0° Plane

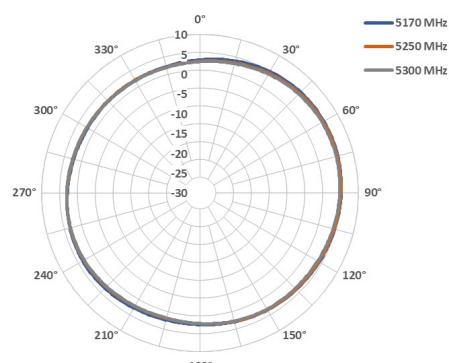


Phi 90° Plane

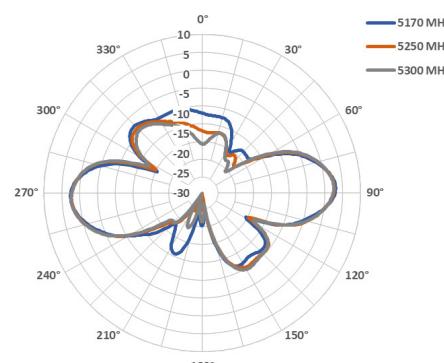


### Radiation Patterns at 5.17 - 5.33 GHz

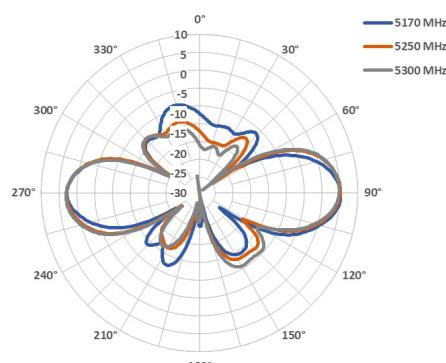
Azimuth Plane



Phi 0° Plane

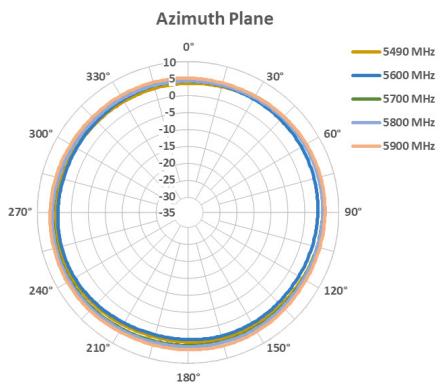


Phi 90° Plane

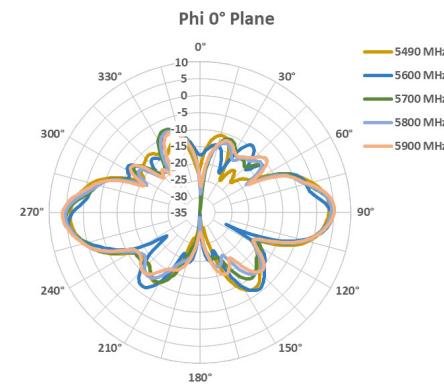


## Radiation Patterns at 5.49 - 5.9 GHz

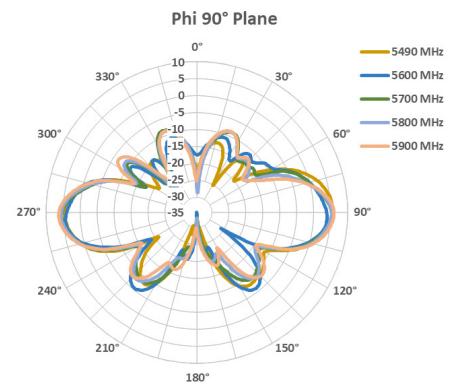
Azimuth Plane



Phi 0° Plane

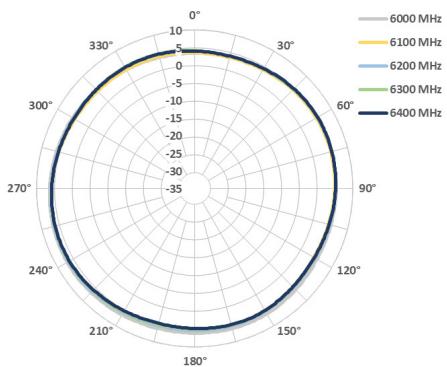


Phi 90° Plane

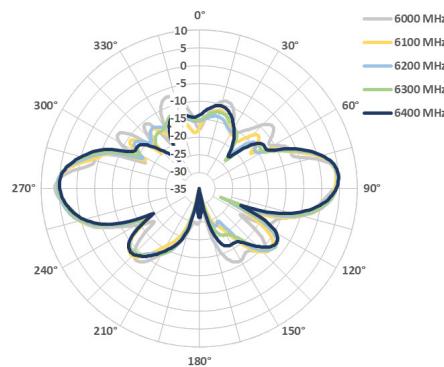


## Radiation Patterns at 6.0 - 6.4 GHz

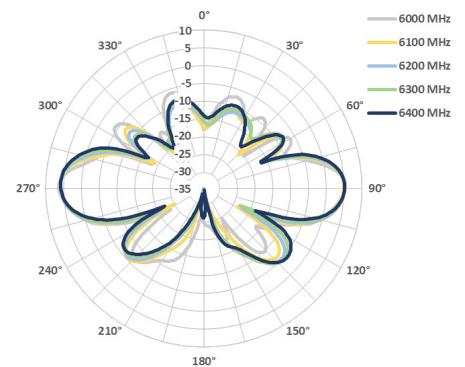
Azimuth Plane



Phi 0° Plane

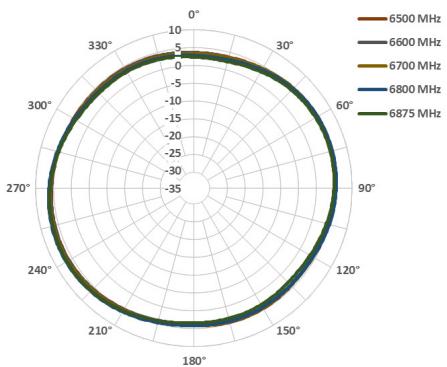


Phi 90° Plane

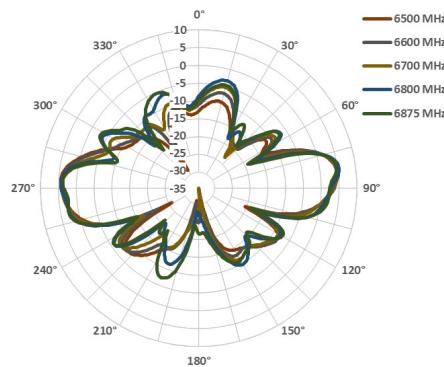


## Radiation Patterns at 6.5 - 7.125 GHz

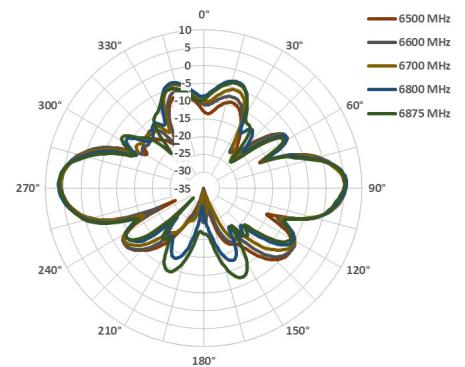
Azimuth Plane



Phi 0° Plane

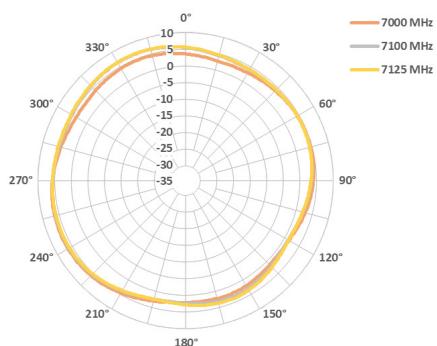


Phi 90° Plane

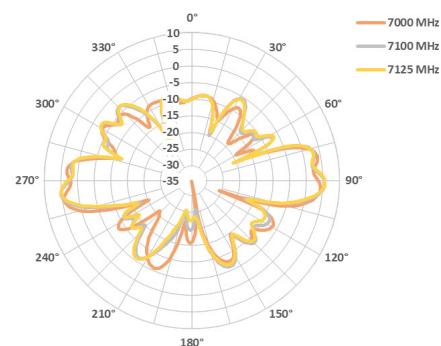


## Radiation Patterns at 7.0 - 7.125 GHz

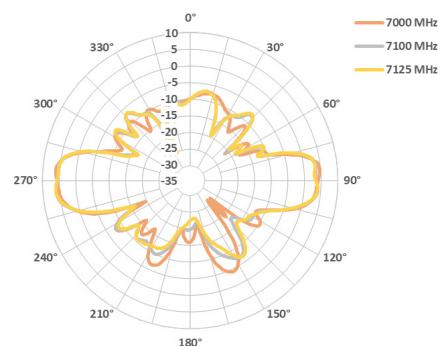
Azimuth Plane



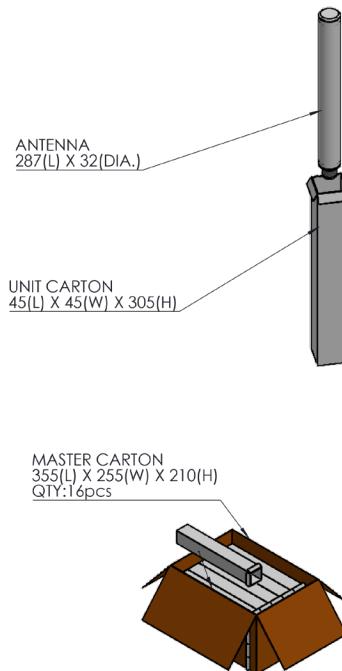
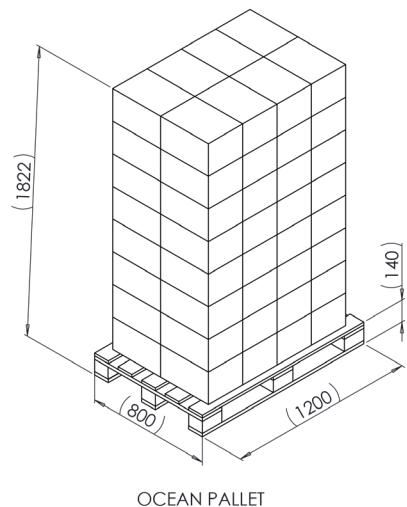
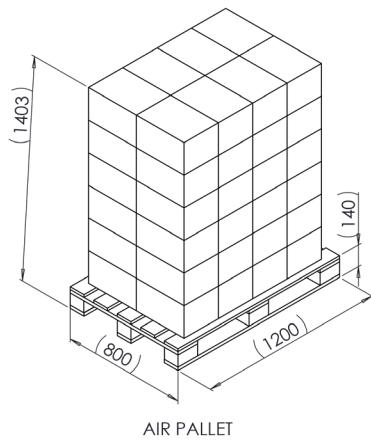
Phi 0° Plane



Phi 90° Plane



## PACKING INFORMATION



PACKAGED DIMENSIONS	Unit Carton	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	1	16	768	960
Height mm(in)	305 (12)	210 (8.27)	1466 (57.24)	1791 (69.96)
Length mm(in)	45 (1.77)	355 (13.98)	1200 (47.24)	1200 (47.24)
Width mm(in)	45 (1.77)	255 (10.04)	800 (31.50)	800 (31.50)
Est. Shipping Weight kg (lbs.)	0.125 (0.28)	2.5 (5.51)	108 (238.10)	132 (291.01)

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