



The Ezurio Wi-Fi 6E Mini NanoBlade Flex 6 GHz is a flexible PCB antenna that supports 3 bands of WLAN applications, including the 6 to 7.125 GHz band enabling Wi-Fi 6E. These small flexible printed circuit antennas can be embedded in space-sensitive applications. They offer excellent efficiency over all 3 Wi-Fi bands. The antennas are specifically designed to be embedded inside various IoT devices for aesthetically pleasing integration.

## 1 Features and Benefits

- Three-band frequency coverage
- Support for Wi-Fi 6E
- Excellent Omni Gain Patterns
- High Efficiency
- Medical Devices
- Home Automation Equipment
- Smart Grid Applications

Electrical Specifications			
Operating Frequency (MHz)	2400-2500	4900-6000	6000-7125
VSWR - Avg	1.7:1	1.5:1	1.4:1
VSWR - Max	<2.0:1		
Peak Gain - Avg (dBi)	2.0	3.5	4.6
Peak Gain - Max (dBi)	2.4	4.4	5.2
Efficiency - Avg (%)	68%	76%	74%
Efficiency - Avg (dB)	-1.7	-1.2	-1.3
Nominal Impedance (Ohms)	50		
Max Power - Ambient 25°C (W)	5		
Polarization	Linear, Vertical		
Number of Ports	1		
Horizontal Plane 3 dB Beamwidth	360°, Omnidirectional		

**Note:** Electrical data measured on 1.7mm thick polycarbonate

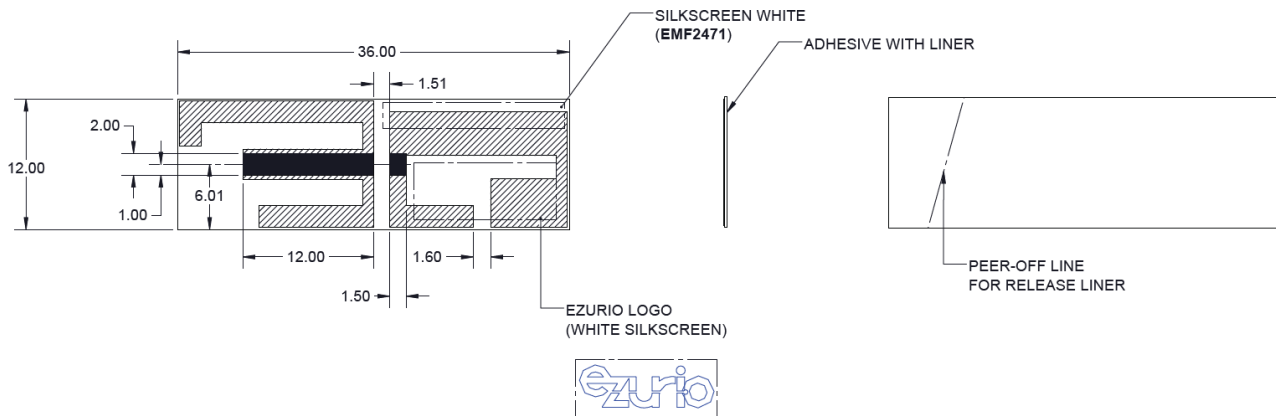
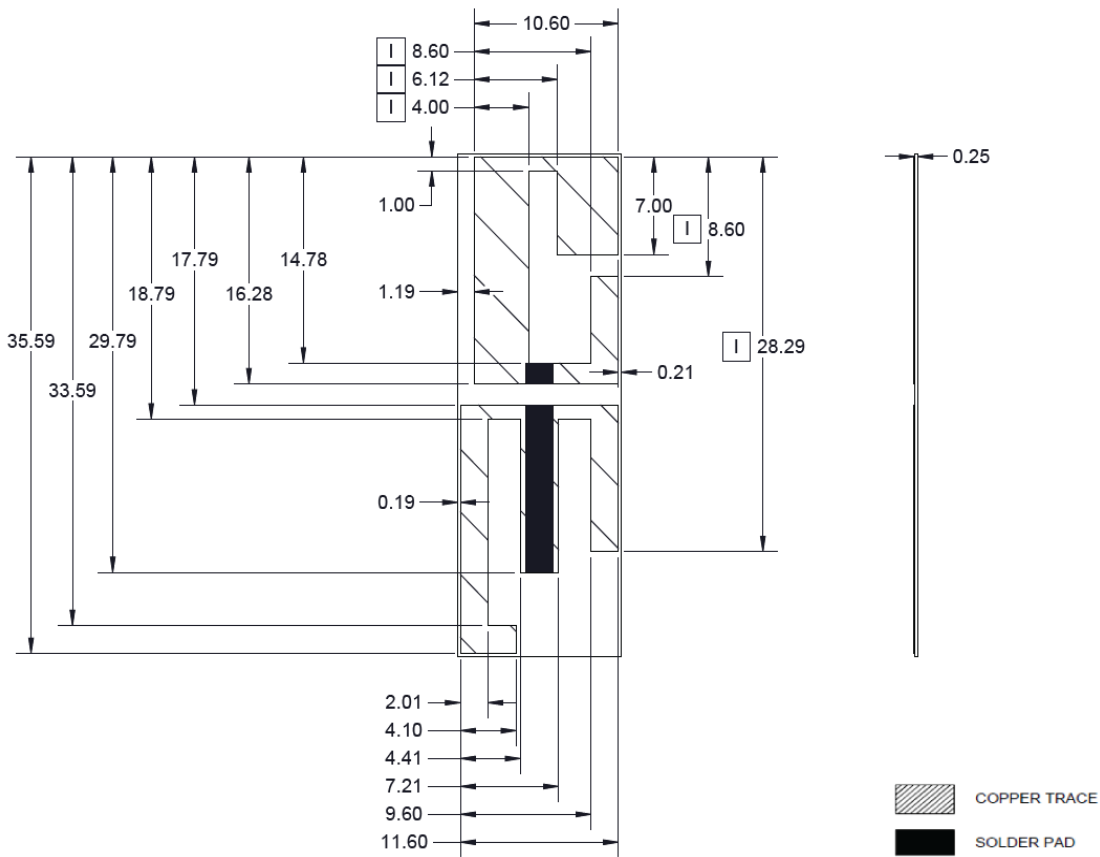
Mechanical Specifications	
Dimensions - diameter x height - mm (inches)	36 x 12 x 0.3 (1.42 x .47 x .012)
Radome Material	Flexible Printed Circuit Board (FPC)

Environmental Specifications	
Operating Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Material Substance Compliance	RoHS

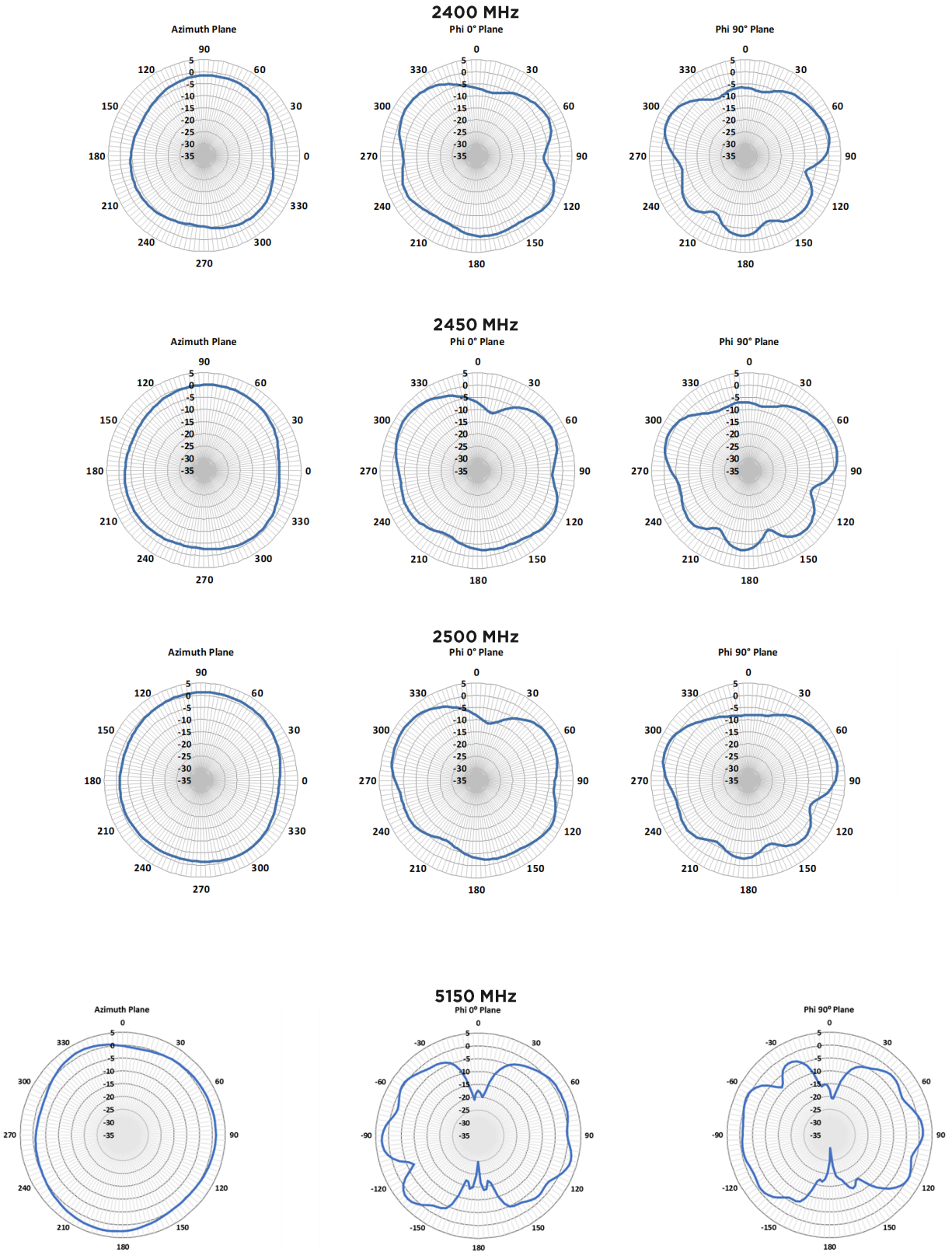
## 2 Configuration

Part Number	Cable Length	Connector
EMF2471A3S-10MHF1	100 mm	MHF1
EMF2471A3S-10MH4L	100 mm	MHF4L

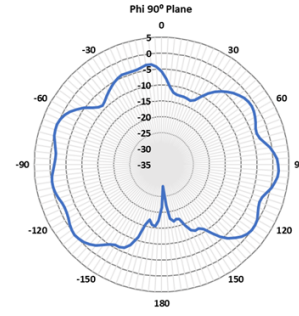
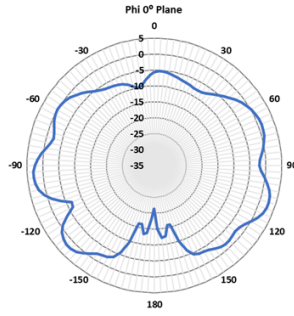
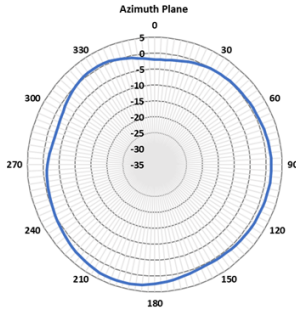
### 3 Mechanical Drawings



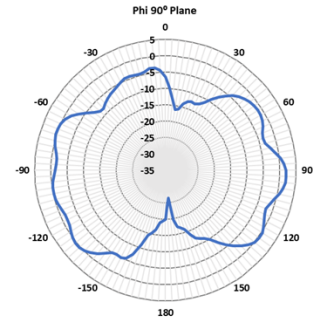
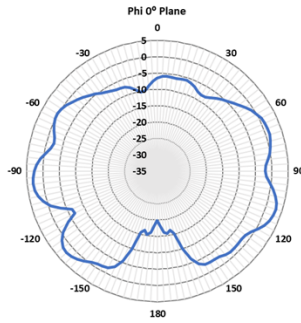
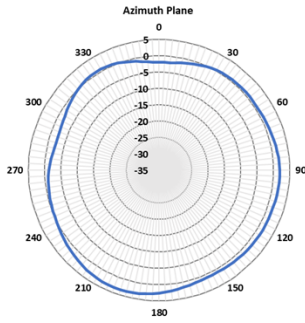
## 4 Radiation Patterns



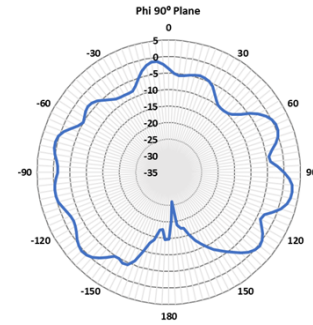
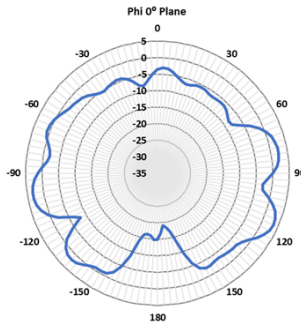
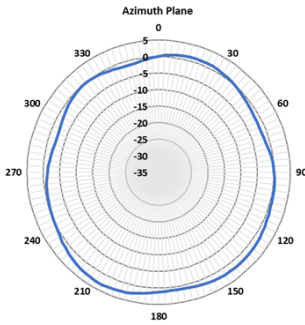
**5470 MHz**



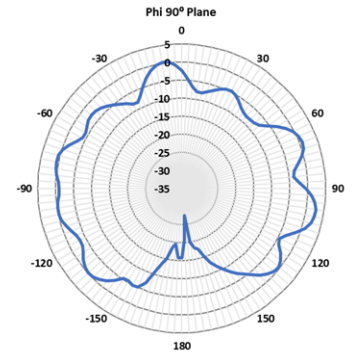
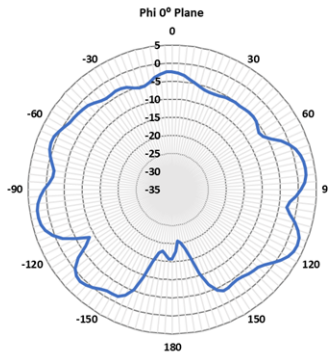
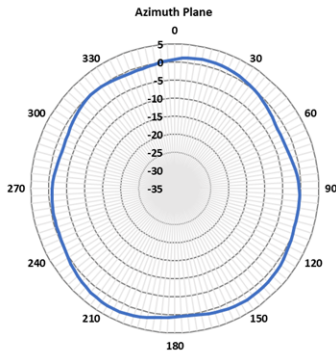
**5500 MHz**



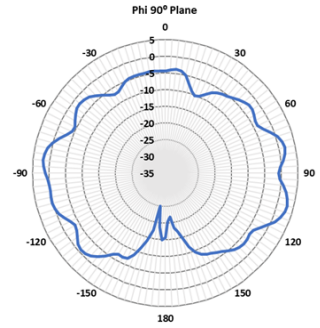
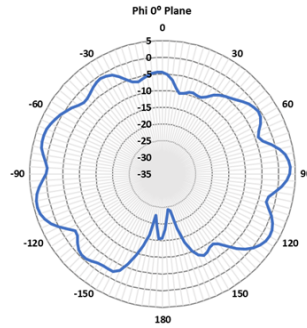
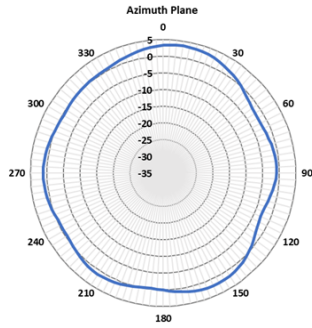
**5850 MHz**



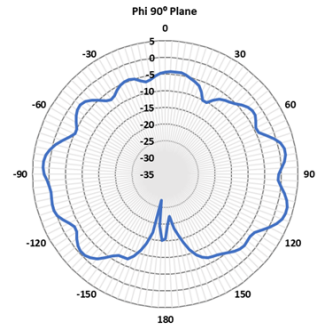
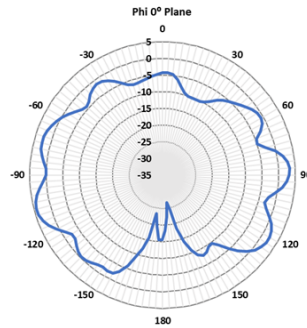
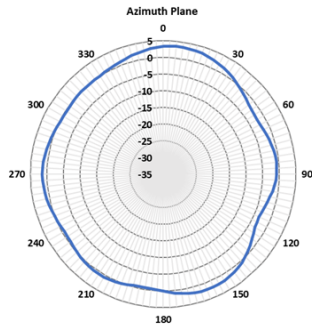
**5925 MHz**



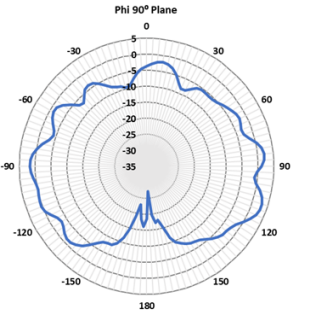
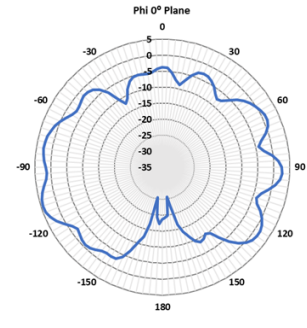
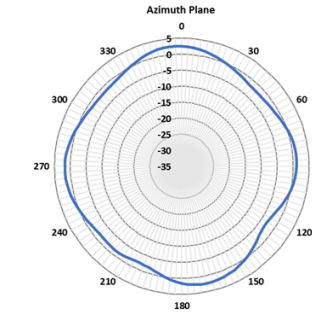
**6425 MHz**



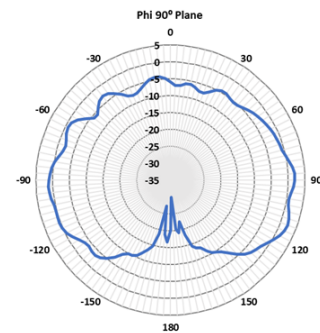
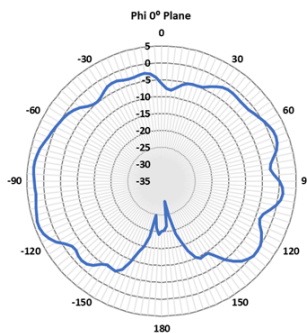
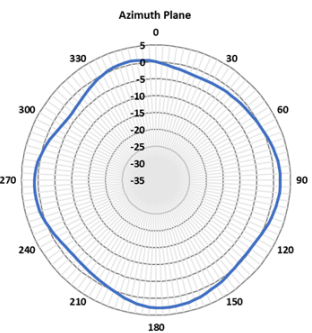
**6525 MHz**



**6875 MHz**



**7125 MHz**



## 5 Additional Information

Please contact your local sales representative or our support team for further assistance:

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