

The Laird Connectivity 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.

FEATURES AND BENEFITS

- Three-band frequency coverage
- Support for Wi-Fi 6E
- Excellent Omni Gain Patterns
- High Efficiency

APPLICATIONS

- 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)

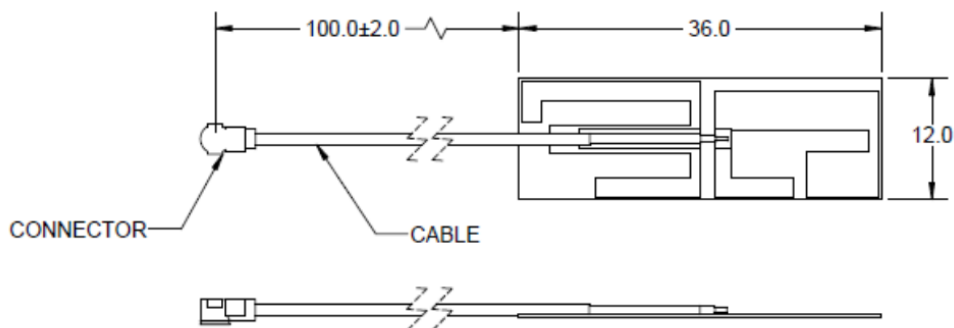
ENVIRONMENTAL SPECIFICATIONS

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

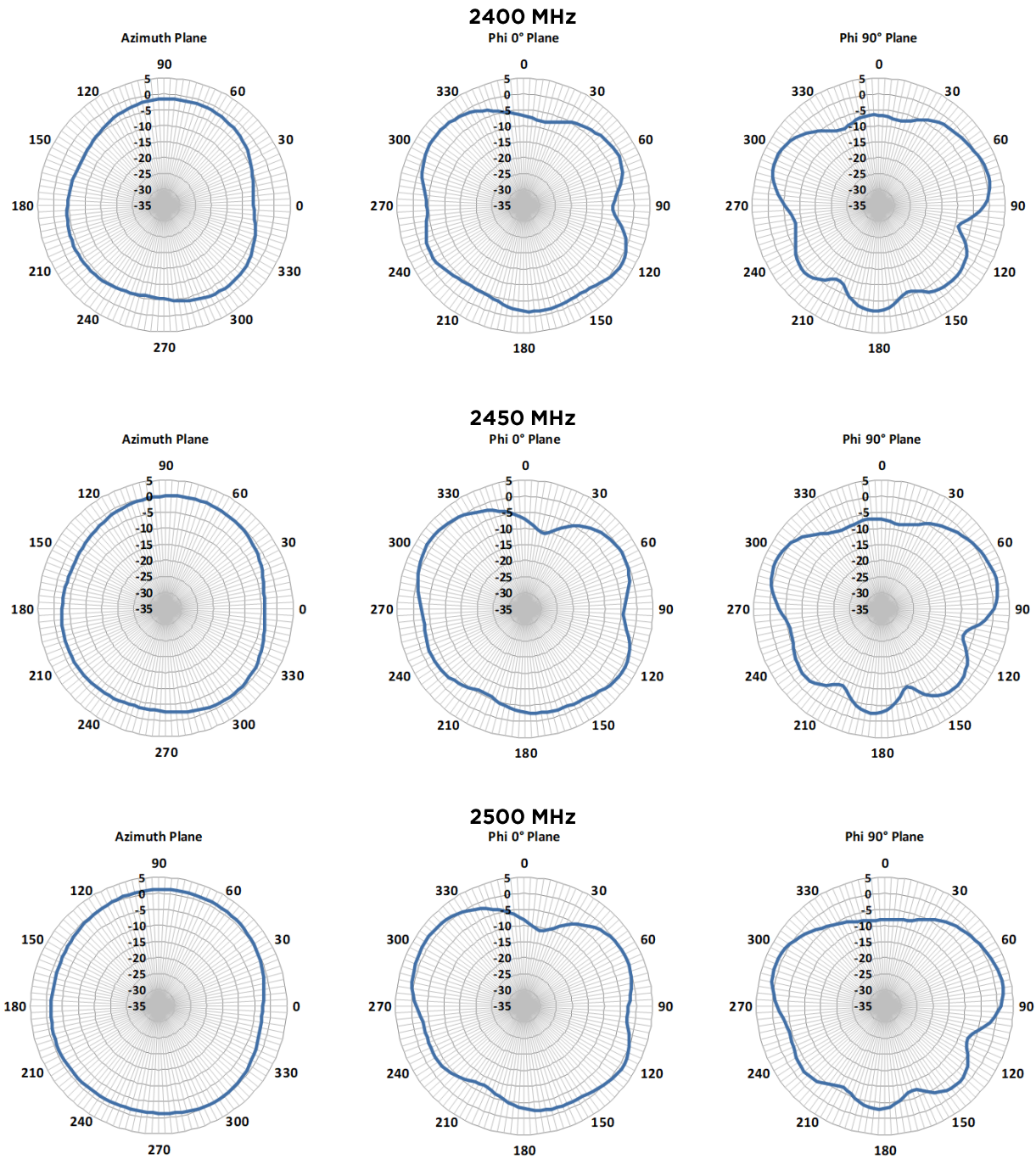
CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
EMF2471A3S-10MHF1	100 mm	MHF1
EMF2471A3S-10MH4L	100 mm	MHF4L

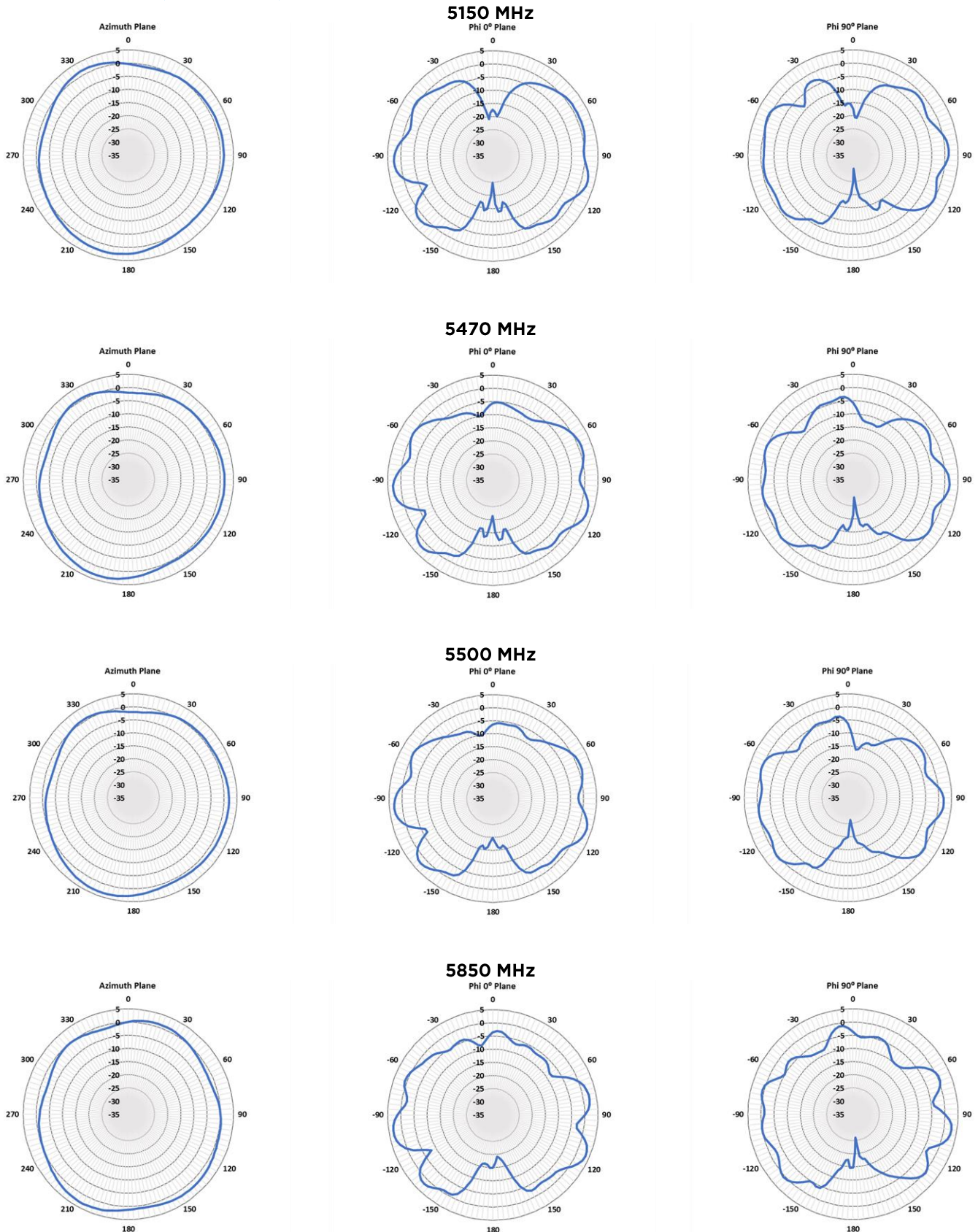
MECHANICAL DRAWING



RADIATION PATTERNS

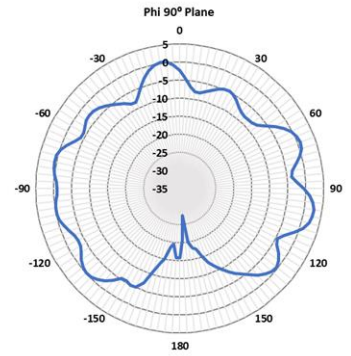
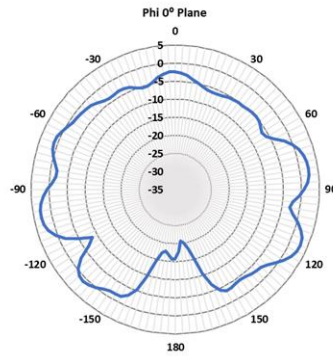
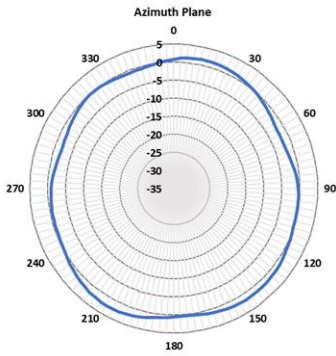


RADIATION PATTERNS (CONTINUED)

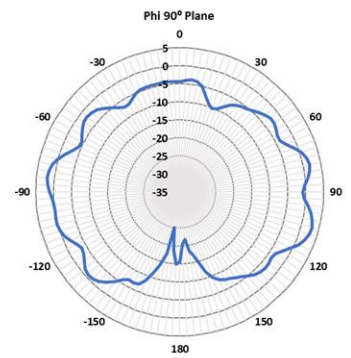
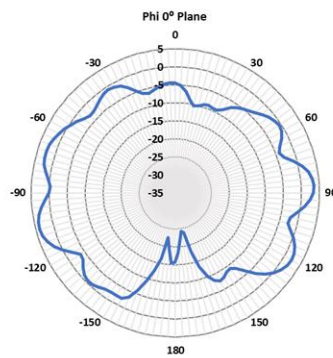
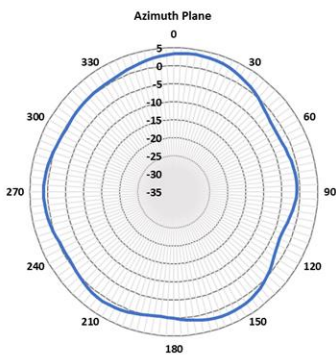


RADIATION PATTERNS (CONTINUED)

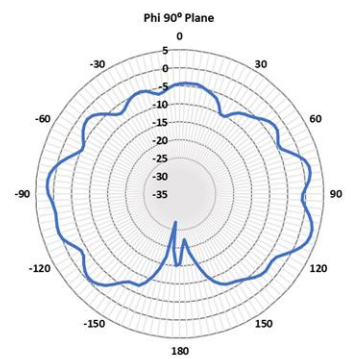
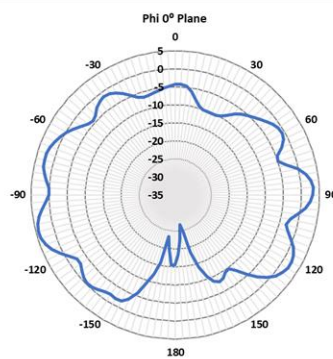
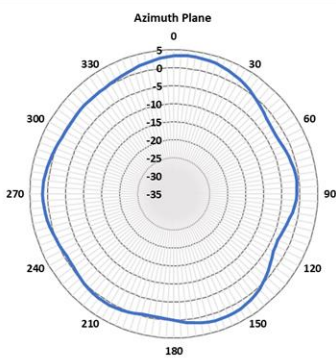
5925 MHz



6425 MHz

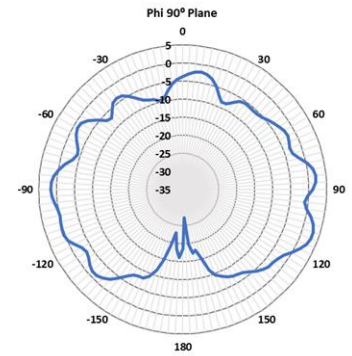
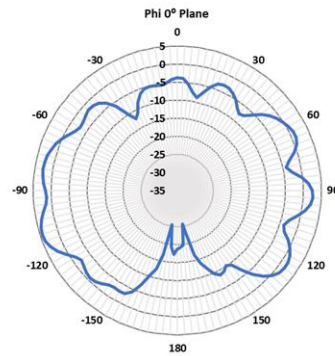
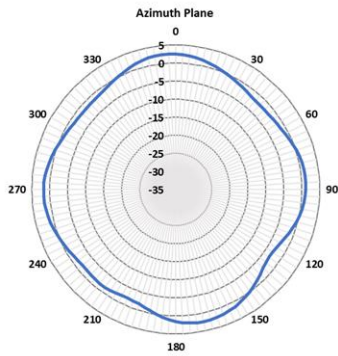


6525 MHz

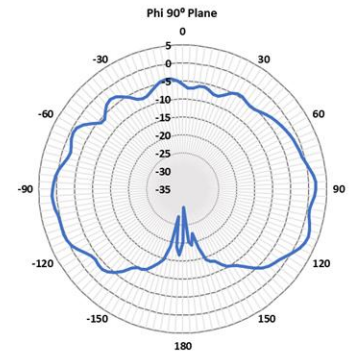
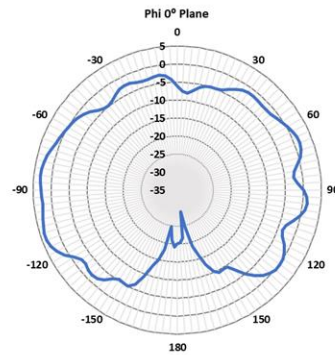
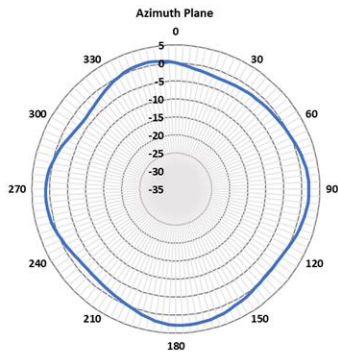


RADIATION PATTERNS (CONTINUED)

6875 MHz



7125 MHz



ADDITIONAL ASSISTANCE

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

Support Center <https://www.lairdconnect.com/resources/support>

Phone Americas: +1-800-492-2320
 Europe: +44-1628-858-940
 Hong Kong: +852 2762 4823

Web <https://www.lairdconnect.com/internal-antennas>

Address Laird Connectivity
 50 S. Main Street, Suite 1100
 Akron, OH 44308

sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com

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