

The Laird Connectivity Mini NanoBlade Flex antenna features a flexible printed circuit board that supports WLAN applications. The flexible board can be embedded in space-sensitive applications where a curved housing does not provide a flat surface for antenna mounting. The antennas are specifically designed to be embedded inside devices for aesthetically pleasing integration.

## FEATURES AND BENEFITS

- Dual-band frequency coverage
- RoHS Compliant (2011/65/EU)
- Flexible PCB for mounting in curved housing

### ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	2400-2500	4900-5875
Gain (dBi)	2.8	3.4
Efficiency (%)	68	59
VSWR, Max	2:1	
Polarization	Vertical, Omnidirectional	
Nominal Impedance (ohms)	50	

### MECHANICAL SPECIFICATIONS

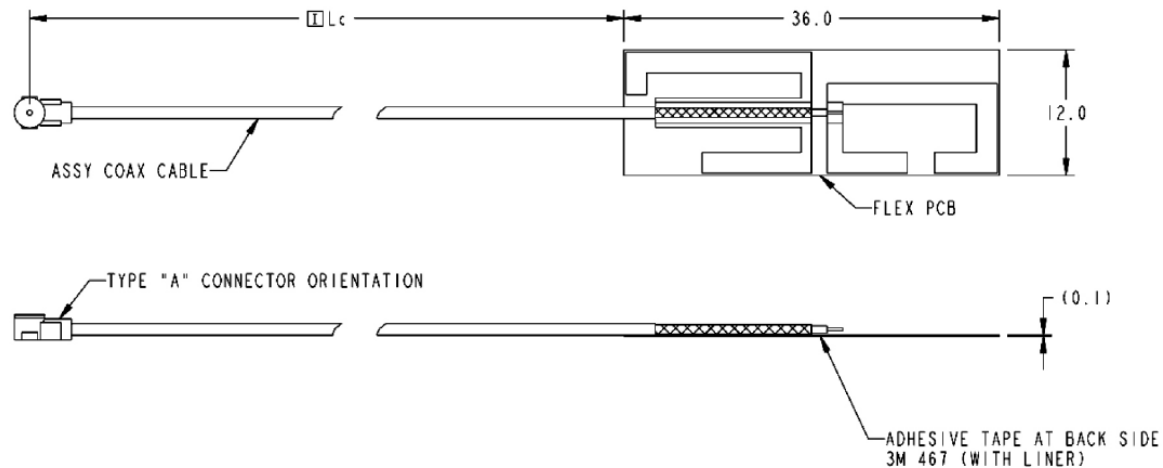
Dimensions – mm (in.)	36 x 12 x 0.1 (1.42 x 0.47 x 0.004)
Hazardous Materials Compliance	RoHS Compliant (2011/65/EU)
Operational Temperature, °C (°F)	-35 to +85 (-31 to +185)
Storage Temperature, °C (°F)	-40 to + 85 (-40 to +185)

### CONFIGURATION

PART NUMBER	CABLE LENGTH (Length x Diameter)	CONNECTOR	CONNECTOR ORIENTATION
MAF95310	185 mm (7.28 in.) x 1.13 mm (0.044 in.)	IPEX U.FL	A
EMF2449A1-10UFL	100 mm (3.94 in.) x 1.13 mm (0.044 in.)	IPEX U.FL	A
EMF2449A1-10MH4L	100 mm (3.94 in.) x 1.13 mm (0.044 in.)	IPEX MHF4L	A
EMF2449A2-10MHF1	100 mm (3.94 in.) x 1.13 mm (0.044 in.)	MHF1	B

**Note:** This antenna is available in many connector and cable configurations. Contact us at 1-847-839-6925 or [sales@lairdconnect.com](mailto:sales@lairdconnect.com) for more information.

## MECHANICAL DRAWING - MHF1 VERSION

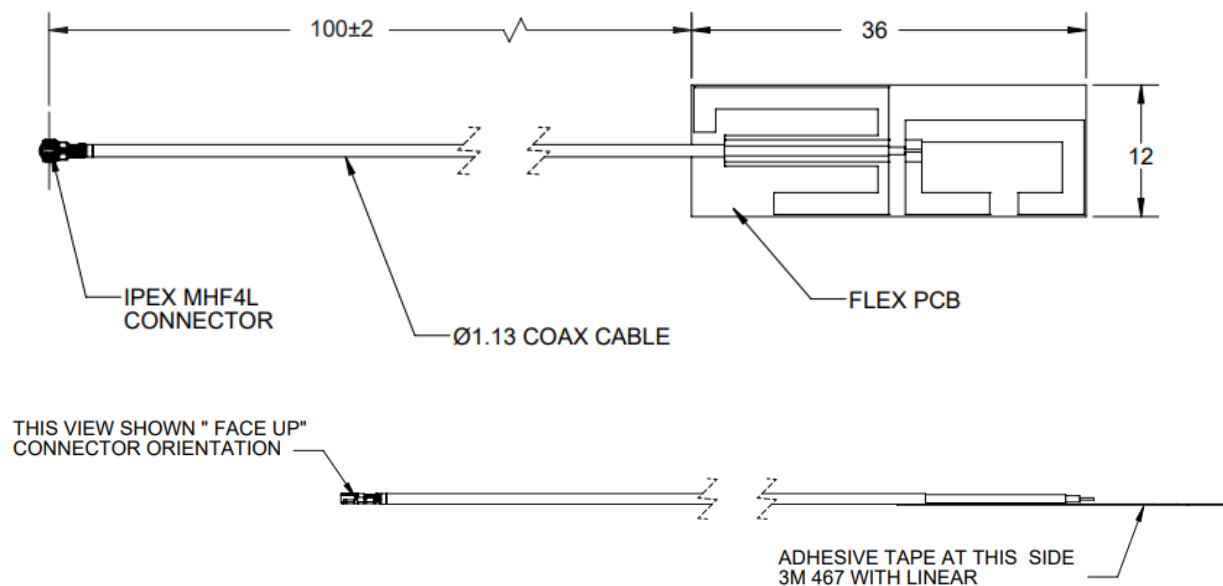


	A
	B
	C
	D

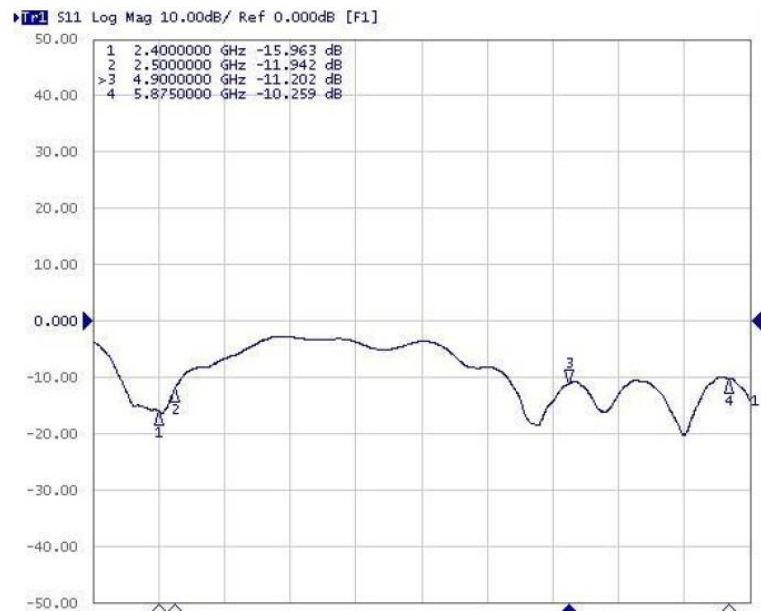
TYPE OF CONNECTOR ORIENTATION (REFER TABLE.1)

TABLE.1

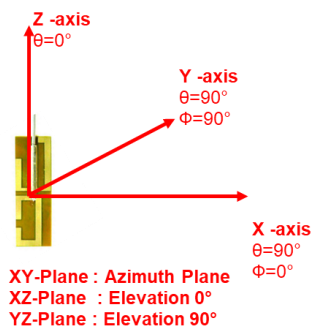
## MECHANICAL DRAWING - MHF4L VERSION



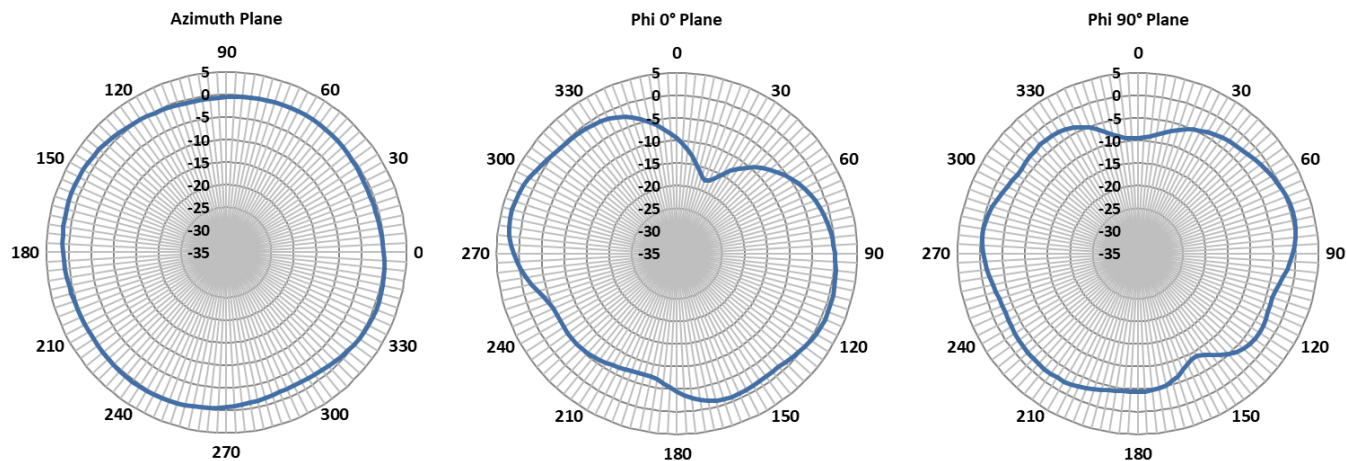
## RETURN LOSS



## RADIATION PATTERNS

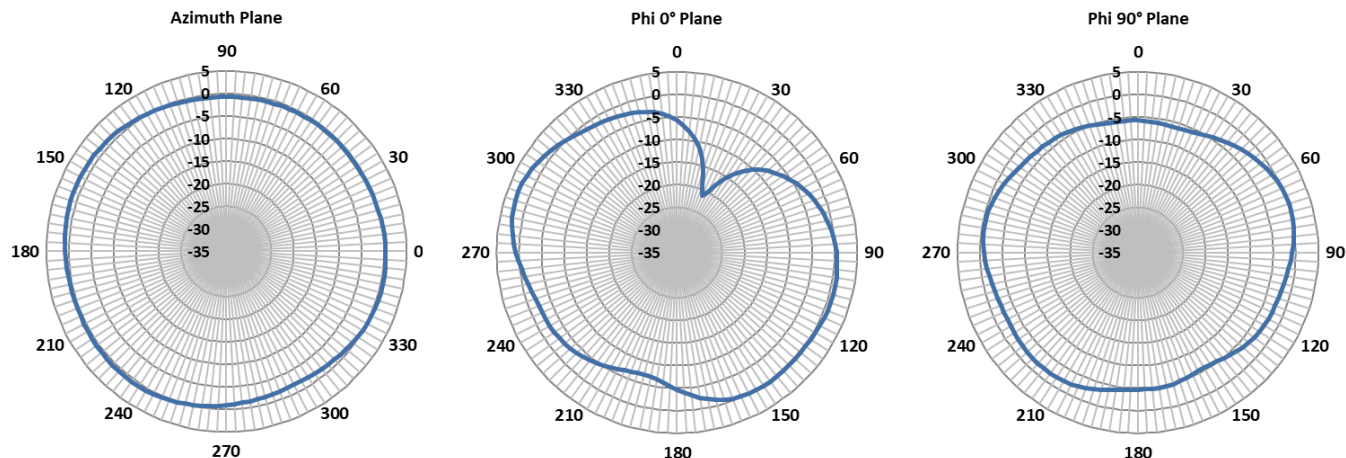


### 2400 MHz

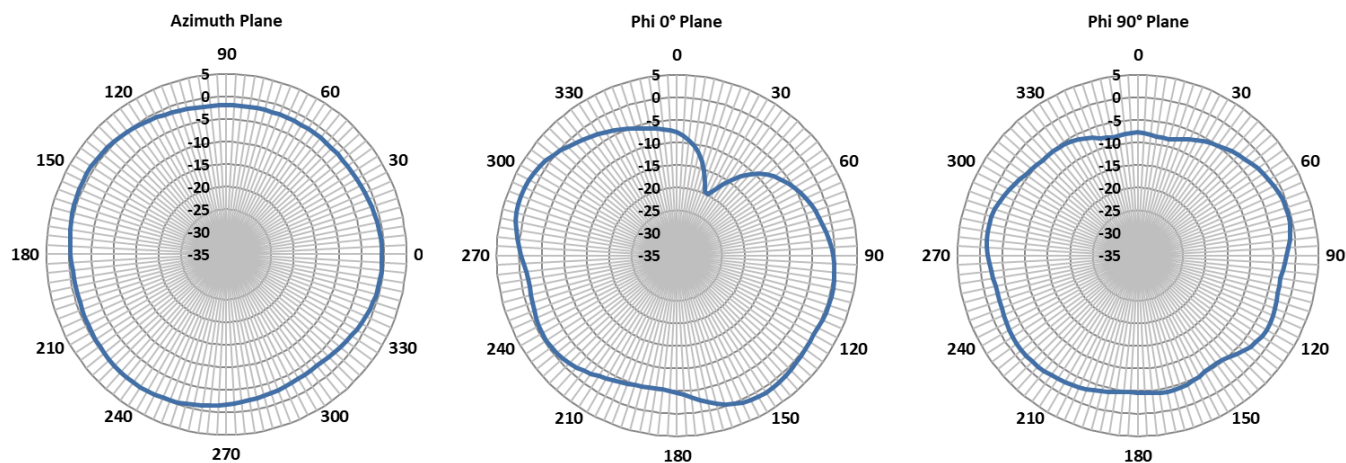


## RADIATION PATTERNS

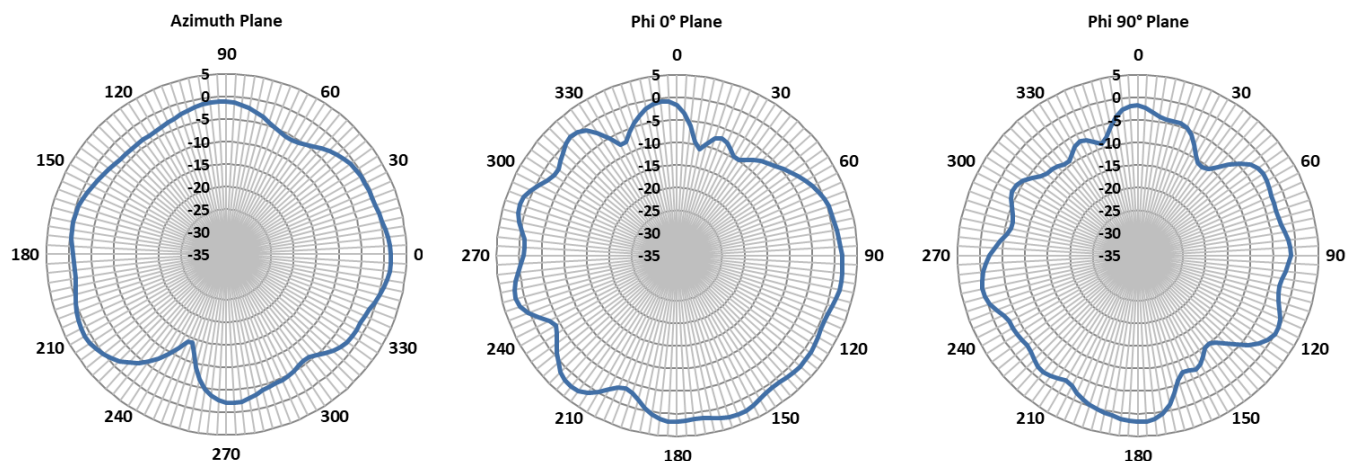
### 2450 MHz



### 2500 MHz



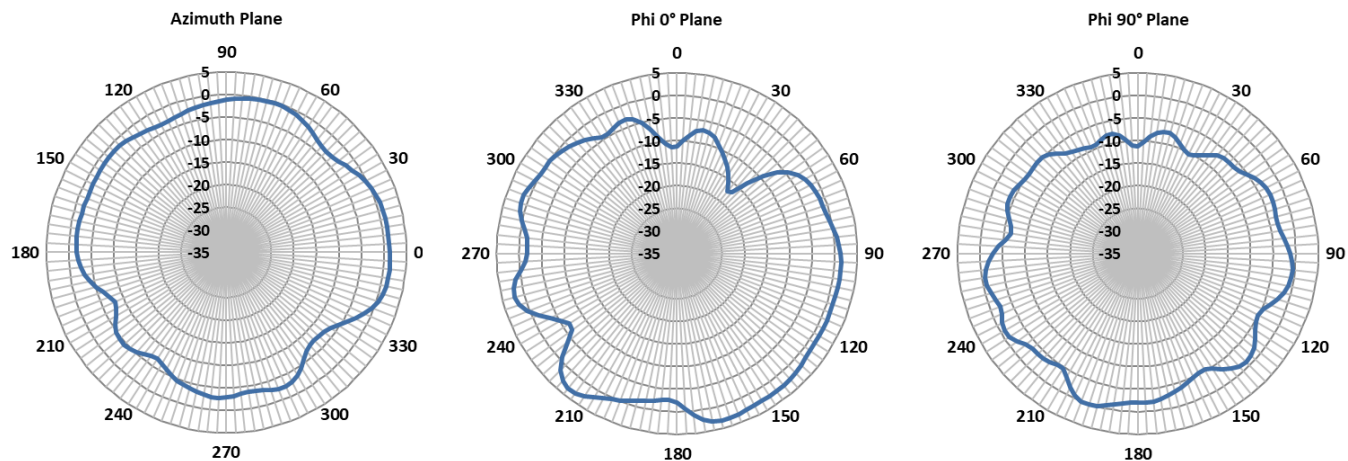
### 4900 MHz



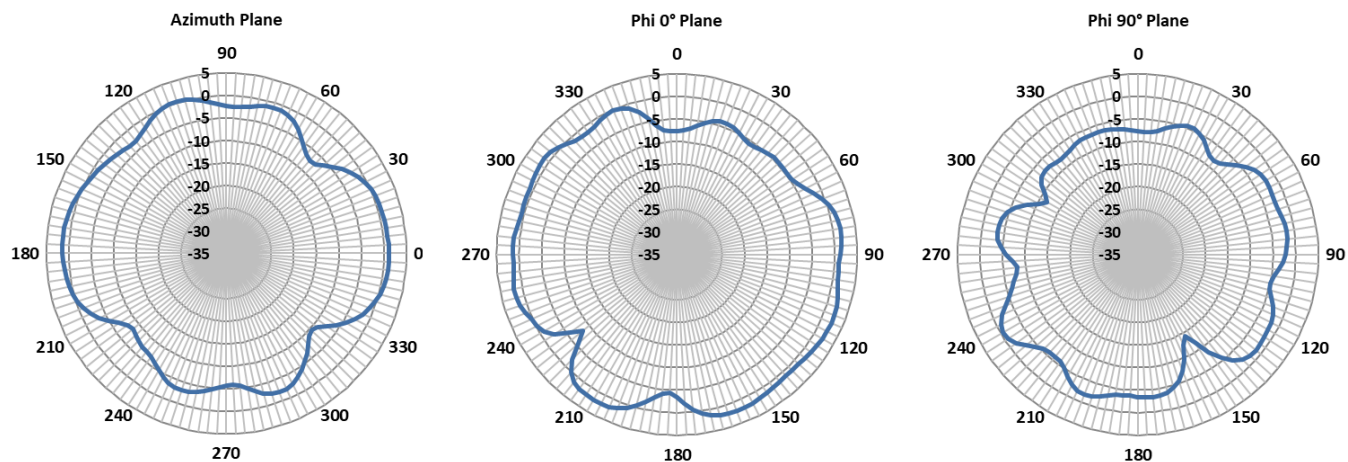


## RADIATION PATTERNS

### 5470 MHz



### 5875 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**

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Hong Kong:	+852 2762 4823

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

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