Laird CONNECTIVITY

INVERTED MOUNT FOR OUTWARD RADIATION WITH EXCEPTIONAL RF PERFORMANCE

This industry-first inverted FlexPIFA™ (i-FlexPIFA™) antenna design (patented) delivers strong performance in challenging environments, providing you unmatched flexibility to solve your real-world antenna design challenges. **The i-FlexPIFA Mini is designed for rapid integration into even smaller, more space-constrained devices and housings**, the flexible, adhesive backed antennas are available with MHF1 and MHF4L connector options.

The **i-FlexPIFA Mini series** is designed with the radiating element facing outward when adhered to a plastic enclosure interior. This orientation gives more flexibility by granting different mounting options, like the underside of an enclosure. The i-FlexPIFA Mini outperforms competitors' solutions in these orientations, expanding the FlexPIFA family offerings.

i-FlexPIFA antenna technology provides consistent performance across the 2.4GHz ISM band, always ensuring a solid and reliable connection.

- **Coverage** – 2.4GHz-2.48GHz Operation
- **Performance** – Exceptional performance with 2.0 dBi gain and 2.5:1 VSWR, outperforming competitors' solutions
- **Versatile** – Flexible, peel-and-stick adhesive backed antenna for a variety of space-constrained IoT devices.
- **Reliable** – PIFA technology is easy to integrate into IoT devices and less likely to detune in proximity of metal or a human body.
- **Quality** – Designed and built to exacting specifications.

ELECTRICAL SPECIFICATIONS	
Operating Frequency (MHz)	2400-2480
VSWR (Max)	<2.5:1
Peak Gain (dBi)	2.0
Nominal Impedance (Ohms)	50
Polarization	Linear
Antenna Type	Inverted Ground Flexible Planar Inverted F Antenna (i-FlexPIFA)
Radiation Pattern	Omnidirectional

MECHANICAL SPECIFICATIONS	
Dimensions – length x width x height – mm (inches)	35.9 x 11 x 2.9 (1.41 x 0.43 x 0.114)
Connector Options	MHF1 (u.FL) & MHF4L

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)

ORDERING INFORMATION

PART NUMBER	CABLE LENGTH	CONNECTOR
EFG2401A3S-10MHF1	100 mm	MHF1
EFG2401A3S-10MH4L	100 mm	MHF4L

APPLICATION AREAS

Industrial IoT	**Medical Devices**
Smart Metering and Utilities	**EV Charging Stations**
Rugged Handheld Scanners	**Telematics / Logistics Devices**