



Wi-Fi 6E Internal Antenna 2400-2500/4900-5925/5925-7125 MHz



In 2020 the FCC announced the allocation of a new frequency spectrum for Wi-Fi applications, extending the frequencies up to 7125 MHz.

FlexPIFA 6E antennas support the full Wi-Fi spectrum of 2400-2500, 4900-5925, and 5925-7125 MHz frequency bands. This makes them an ideal solution for coverage of traditional Wi-Fi frequencies with the addition of future proofing for newly emerging Wi-Fi 6E applications.

Designed for rapid integration into space-constrained devices and housings, the flexible, adhesive-backed antennas are available with MHF1 or MHF4L connectors, providing multiple installation solutions for IoT device manufacturers.

PIFA antenna technology provides consistent, stable performance across all three Wi-Fi bands, ensuring a solid and reliable connection at all times.



FEATURES AND BENEFITS

- Full Coverage Operates over all three Wi-Fi bands
- Performance Exceptional performance across all bands
- Versatile Flexible, peel-and-stick adhesive-backed antenna for a variety of space-constrained IoT devices
- Future-Proofed Coverage for emerging Wi-Fi 6E applications
- 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

APPLICATIONS

- Smart metering and utilities
- Industrial IoT
- Agricultural and rural (Farm sense and control)
- Quick service restaurants
- Smart lockers
- Medical devices

\Number of Ports	1		
Operating Frequency (MHz)	2400-2500	4900-5925	5925-7125
VSWR – Avg	1.4:1	1.9:1	1.6:1
VSWR – Max	<2.5:1	<3.0:1	<3.0:1
Peak Gain – (dBi) *	2.2	3.9	3.8
Efficiency – Avg (%)	59	60	60
Efficiency – Avg (dB)	-2.3	-2.2	-2.2
Nominal Impedance (ohms)	50		
Max Power - Ambient 25°C (W)	5		
Polarization	Linear		
Azimuth Beamwidth	360°, Omnidirectional		

Note: Measured on a 100 mm x 100 mm x 1.7 mm thick polycarbonate sheet.

^{*} Actual peak gain values can be influenced by measurement variation and other uncertainties.

MECHANICAL SPECIFICATIONS				
Dimensions – length x width x height – mm (inches)	16 x 36 x 2.5 (0.62 x 1.41 x .098)			
Weight – g (oz.)	0.6			
Adhesive	3M 467MP			

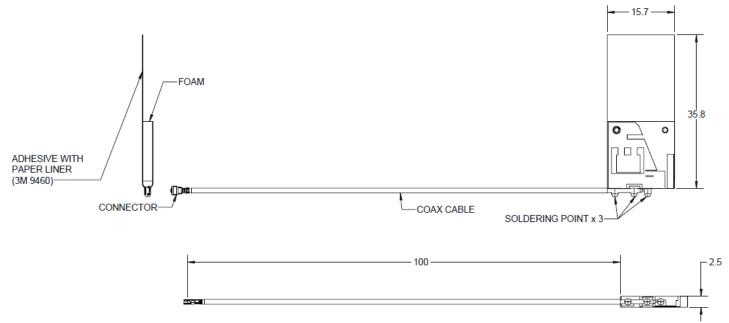
ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)	
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)	
Material Substance Compliance	RoHS	

CONFIGURATION

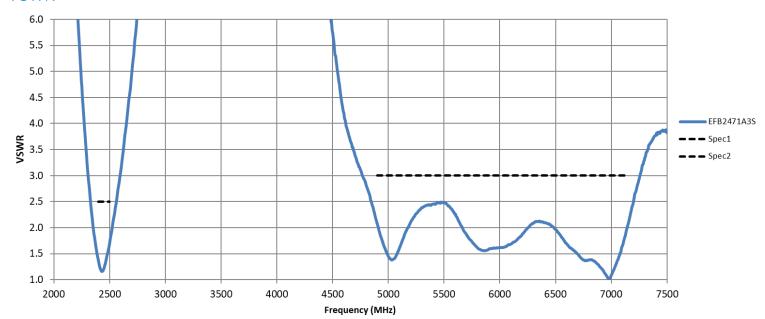
PART NUMBER	EXPOSED CABLE LENGTH/DIAMETER	CONNECTOR
EFB2471A3S-10MHF1	100 mm/1.13 mm	MHF1
EFB2471A3S-10MH4L	100 mm/1.13 mm	MHF4L



MECHANICAL DRAWING

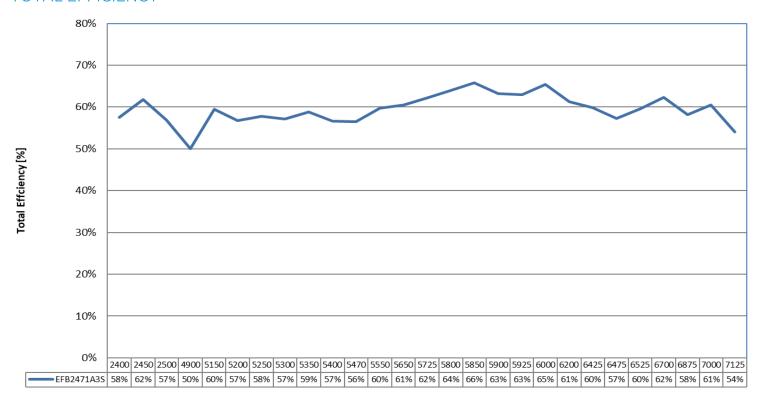


VSWR

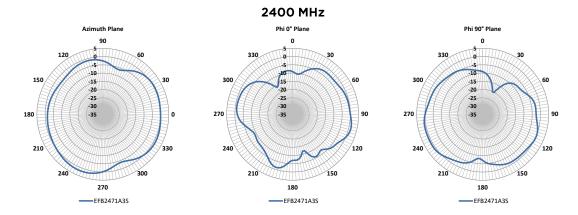




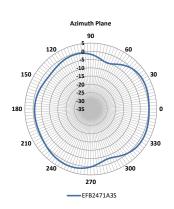
TOTAL EFFICIENCY

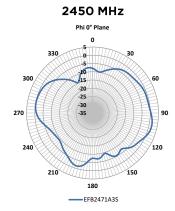


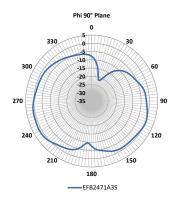
RADIATION PATTERNS



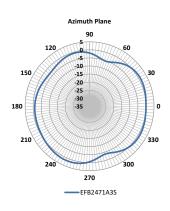


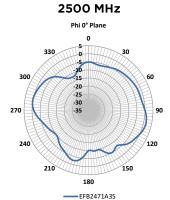


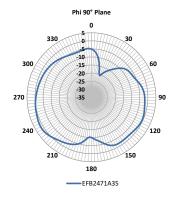


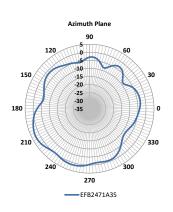


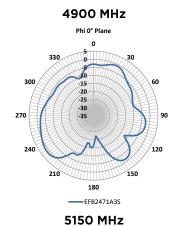
RADIATION PATTERNS

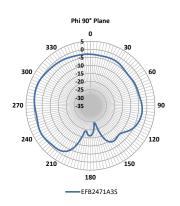




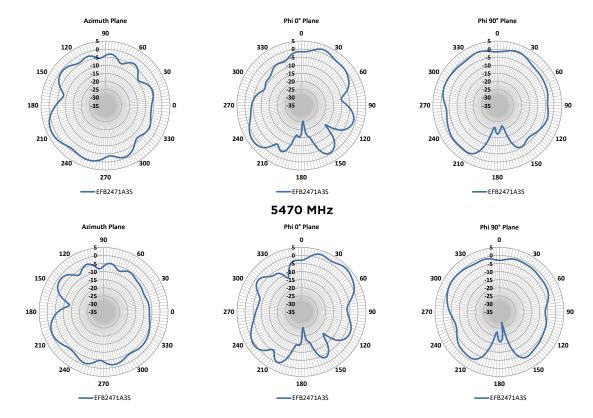




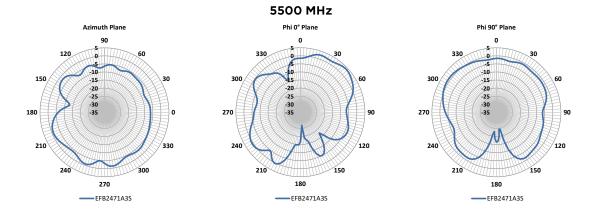




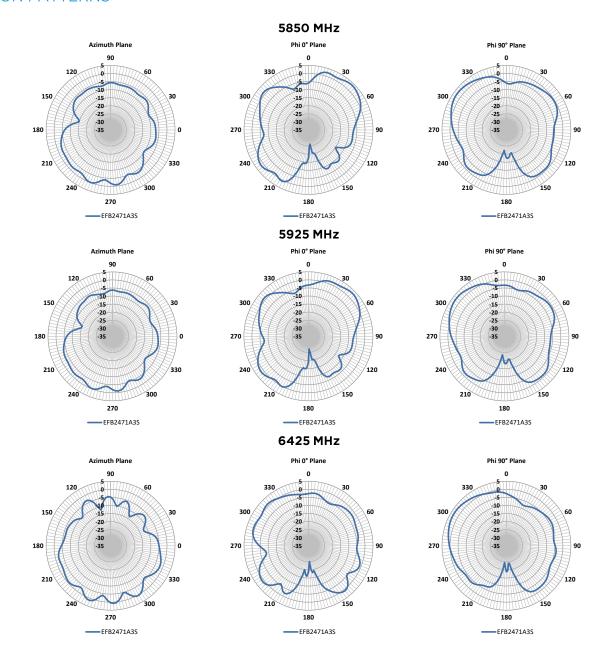




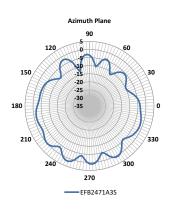
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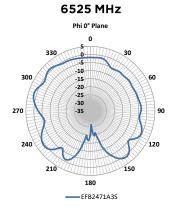


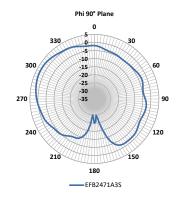


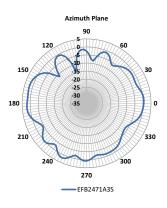


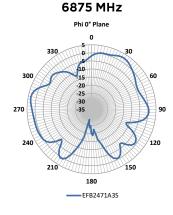


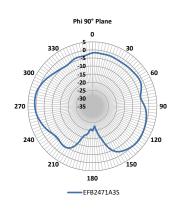


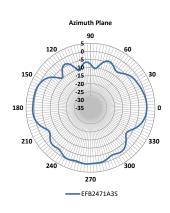


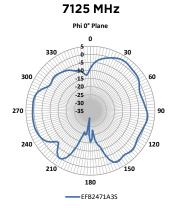


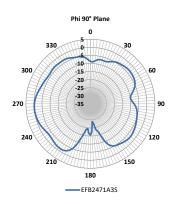














PACKAGING INFORMATION

Carton Layout

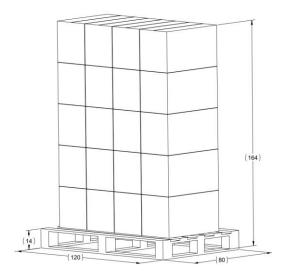
Unit Carton



- Dimensions: 245 mm x 120 mm x 135 mm
- Weight: 0.22 kg
- Zipper bag 152 mm x 229 mm (10 antennas per bag)
- 20x zipper bags per carton (200 antennas total)

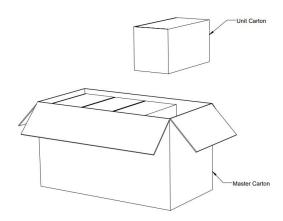
Pallet Layout

Ocean Shipping Pallet



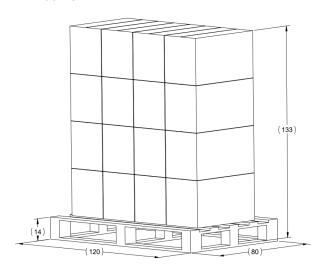
- Pallet base dimensions: 120 cm x 80 cm x 14 cm
- Full loaded dimensions: 120 cm x 80 cm x 164 cm
- 20 master cartons (4 x 5 layout), 60 kg total
- 32000 antennas per pallet

Master Carton



- Dimensions: 520 mm x 260 mm x 295 mm
- Weight: 2.4 kg
- Total of 8-unit cartons per master carton
- Total of 1600 antennas per master carton

Air Shipping Pallet



- Pallet base dimensions: 120 cm x 80 cm x 14 cm
- Full loaded dimensions: 120 cm x 80 cm x 133 cm
- 16 master cartons (4 x 4 layout), 50.4 kg total
- 25600 antennas per pallet

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