

# FPA-8296

## Multi-Element Conformal UHF Patch Antenna

### DESCRIPTION

The FPA-8296 is a flight-qualified, L-band, multi-element patch antenna optimized to operate over frequencies from 820 to 960 MHz.

It is ideally suited for a breadth of applications, including signal intelligence (SIGINT), intelligence, surveillance, and reconnaissance (ISR), direction-finding, communications, and electronic warfare (EW).

This conformal antenna is both lightweight and rugged enough to withstand harsh environments.

The FPA-8296-4 is the 4-element version of the FPA-8296.



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### SPECIFICATIONS

#### ELECTRICAL

Frequency Band	820 MHz to 960 MHz
VSWR	$\leq 2.5 : 1$
Polarization	Right-Hand Circular
Boresight Gain	$\geq +8.0$ dbiC at 820 MHz to 850 MHz $\geq +8.5$ dbiC at 850 MHz to 900 MHz $\geq +9.0$ dbiC at 900 MHz to 960 MHz
Power	5+ Watts CW
Ground Plane	Ground Plane Independent
Connector	SMA Female

#### ENVIRONMENTAL

Shock	MILSTD 810F, 20G
Vibration	RTCA/DO-160 C
Operational Temp.	-31°F to +185°F (-35°C to +85°C)

#### MECHANICAL

Weight	2.04 lbs (0.92 kg)
Dimensions	20.6" L x 8.5" W x 0.72" Thick (52.3 cm L x 21.6 cm W x 1.8 cm Thick)
Finish (Default)	White Epoxy

#### MODEL NUMBERS

Black Color	FPA-8296-B
Tan 686A Color	FPA-8296-T
Green 383 Color	FPA-8296-G
Aircraft Gray Color	FPA-8296-AG

#### RELATED PRODUCTS

4-Element Version	FPA-8296-4
	27.5" x 8.5" [69.8 cm x 21.6 cm]