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.

SPECIFICATIONS

ELECTRICAL
Frequency Band 820 MHz to 960 MHz
VSWR ≤ 2.5 : 1
Polarization Right-Hand Circular
Boresight Gain ≥ +8.0 dBiC at 820 MHz to 850 MHz
≥ +8.5 dBiC at 850 MHz to 900 MHz
≥ +9.0 dBiC at 900 MHz to 960 MHz
Power 5+ Watts CW
Ground Plane Ground Plane Independent
Connector SMA Female

MECHANICAL
Weight 2.04 lbs (0.92 kg)
Dimensions 20.6” L x 8.5” W x 0.72” Thick
Finish (Default) White Epoxy

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

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]