



**L3HARRIS™**  
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# L3HARRIS RF-7800W-AT218

## Aircraft Antenna

ELECTRICAL	
Frequency range	4.4 to 5.875 GHz
Gain	3 dBi (nominal)
Impedance	50 ohm (nominal)
Polarization	Dual linear (horizontal and vertical)
VSWR	2.75:1 max
Radiation Pattern	Omni-directional
Port to Port	>20 dB isolation
Cross Polarization	>12 dB separation

SPECIFICATIONS	
Dimensions	7.35 H x 4.63 D in (186.7 H x 117.6 D mm)
Antenna Mount	Hard mount to aircraft body
Antenna weight	2.5 lbs (1.1 kg)
Color	FED-STD 37038 Black
RF Connector	SMA female (2)

ENVIRONMENTAL	
Temperature	-40°F to 140°F (-40°C to 60°C) MIL-STD-810G (operational)
Altitude	15,000 ft MIL-STD-810G Method 500.5 (operational)
Relative Humidity	95% MIL-STD-810G
Vibration	MIL-STD-810G Fixed Wing MIL-STD-810G Rotary Wing MIL-STD-810G Cat. 5 Loose Cargo
Shock	MIL-STD-810G Transit Drop
Salt Fog	MIL-STD-810G
Sand and Dust	MIL-STD-810G
Wind	125 MPH (201 KPH)



The L3Harris RF-7800W-AT218 Aircraft Antenna is ruggedized for top performance in ground-to-air, air-to-air, and air-to-sea, Point-to-Point and Point-to-Multipoint operations. The antenna covers the 4.4 to 5.875 GHz frequency range, including NATO Band IV, Public Safety, ISM and unlicensed bands.

The RF-7800W-AT218 provides two RF feeds and is both horizontally and vertically polarized, supporting the MIMO capability of RF-7800W High-Capacity Line-Of-Sight radios.

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