



## **SIGNAL ANTENNA SYSTEMS**

### **MODEL: XSLA-081019-RH**

The **XSLA-081019-RH** is a high-performance **X-band antenna** engineered for **space, airborne, and mission-critical datalink applications** requiring high gain, excellent polarization purity, and robust power handling. Operating across the **7.8–8.2 GHz** band, the antenna delivers **19.0 dBic gain**, a **17° typical 3-dB beamwidth**, and **right-hand circular polarization (RHCP)**.

Designed for **satellite Telemetry, Tracking & Command (TT&C)**, high-rate downlinks, and precision point-to-point links, the XSLA-081019-RH supports **up to 50 W CW input power**, enabling increased system EIRP and improved link margin compared to conventional low-power X-band solutions. Its **low axial ratio (< 1.75)** and controlled sidelobe levels (**-12 dB typical**) ensure stable polarization performance and reduced interference in dense RF environments. The antenna is well suited for **CubeSat and small-satellite platforms**, airborne ISR systems, and other space-constrained applications where reliable X-band communications and repeatable performance are required.

<b>XSLA-081019-RH</b>	
Frequency Range	7.8 – 8.2 GHz
Gain	19.0 dBic
3-dB Beamwidth	17.0° typ.
Sidelobes	-12 dB
Polarization	RHCP
Axial Ratio	< 1.75
VSWR	1.8:1 max
Impedance	50 Ohm
Power Handling	50 W (CW)
<b>MECHANICAL</b>	
Dimensions	5.3"x5.3"x2.2"
Weight	12.0 oz
Mounting	8X Holes for 6-32 or M4 Screws
Interface	WR-34 ot 2.92mm