



FTSS-XX-CB-01 S-Band TT&C Feed

Suitable for TT&C applications requiring switchable S-Band transmit and simultaneous polarity receive

Orbital Systems FTSS-XX-CB-01 feed is suitable for TT&C applications with S-Band Transmit (TX) and S-Band Receive (RX) operation. The feed includes switchable S-Band Transmit (TX) polarity, and simultaneous S-Band Receive (RX) polarity.



Features

- Simultaneous S-Band Receive in LHCP and RHCP
- Selectable S-Band Transmit in LHCP or RHCP
- S-Band Loopback test injection port for testing the complete S-Band reception chain
- High G/T for aperture size, dual (LNA) Low Noise Amplifier
- High performance dual circular polarity feed with septum polarizer
- Low axial ratio and high port to port isolation
- High isolation cavity diplexers
- No frequency converters
- Direct transmission and reception at S-Band for use with SDR
- Heavy-duty aluminum enclosure, powder coated and assembled with stainless steel fasteners to eliminate external corrosion
- Feed is controlled over Orbital Data Bus (ODB)
- Pressurized feed with temperature and humidity sensors
- Built in purge valve to ventilate the entire antenna when excess humidity is detected in the electrical cabinet or feed

S-Band Reception

S-Band Receive Frequency 2200-2300 MHz
 S-Band Receive Polarity Simultaneous Dual Polarity Reception

S-Band Transmission

S-Band Transmit Frequency 2025-2120 MHz
 S-Band Transmit Polarity Selectable LHCP or RHCP

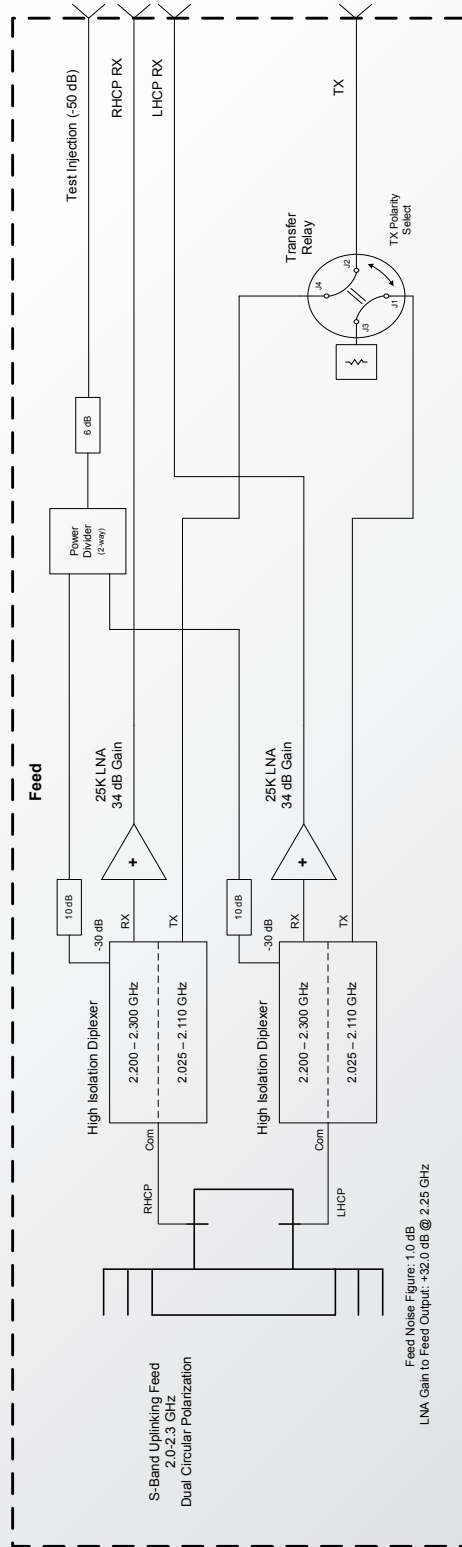
Applications

Satellite TT&C applications where switchable S-Band uplink polarity and simultaneous S-Band downlink polarity is required.

- S-Band RX simultaneous dual polarity
- S-Band TX in LHCP or RHCP

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Block Diagram



	FTSS-XX-CB-01
www.orbitalsystems.com	Irving TX USA
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Prices and specifications are subject to change without notice.
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