



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

Suitable for TT&C applications requiring independently switchable transmit and receive polarity

Orbital Systems FTSS-XX-CC-01 feed is suitable for TT&C applications with S-Band Transmit (TX), and S-Band Receive (RX), each with independent selectable polarity.



Features

- Selectable S-Band Receive in LHCP or RHCP
- Selectable S-Band Transmit in LHCP or RHCP
- High G/T for aperture size, dual Low Noise Amplifier (LNA)
- S-Band Loopback test injection port for testing the complete S-Band reception chain
- High performance dual circular polarity with septum polarizer
- Independent Transmit and Receive polarity selection
- High isolation cavity duplexers
- Low axial ratio
- Heavy-duty aluminum enclosure, powder coated and assembled with stainless steel fasteners to eliminate external corrosion
- Feed is controlled over the 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 Selectable LHCP or RHCP - Independent of Transmit Polarity

S-Band Transmission

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

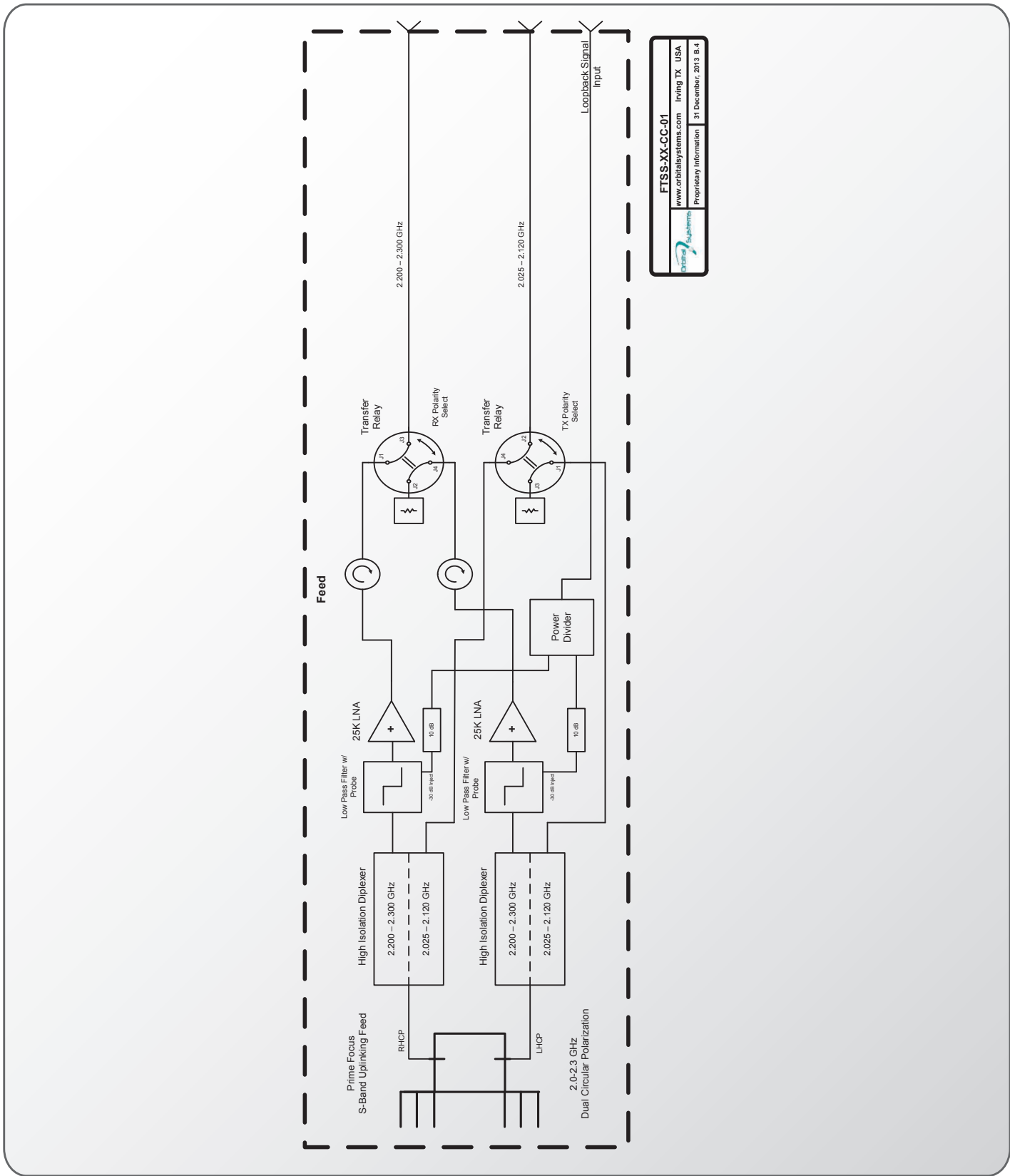
Applications

Satellite TT&C operations where the uplink and downlinks are S-Band and Selectable Polarity is required.

- S-Band RX in LHCP or RHCP
- S-Band TX in LHCP or RHCP

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Block Diagram



	FTSS-XX-CC-01
	www.orbitalsystems.com Irving TX USA
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