



SUDC-D Series Dual Channel Up/Downconverter

Datasheet



Saluki Technology Inc.

Preface

Thank you for choosing SUDC-D Dual Channel Up/Downconverter produced by Saluki Technology Inc.

We devote ourselves to meeting your demands, providing you high-quality measuring instrument and the best after-sales service. We persist with “superior quality and considerate service”, and are committed to offering satisfactory products and service for our clients.

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Document Authorization

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Product Quality Assurance

The warranty period of the product is three years from the date of delivery. The instrument manufacturer will repair or replace damaged parts according to the actual situation within the warranty period.

Product Quality Certificate

The product meets the indicator requirements of the document at the time of delivery. Calibration and measurement are completed by the measuring organization with qualifications specified by the state, and relevant data are provided for reference.

Quality/Settings Management

Research, development, manufacturing and testing of the product comply with the requirements of the quality and environmental management system.

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1. Overview

SUDC-D Series Dual Channel Up/Downconverter belongs to our microwave converter series that has a high performance and a multi-octave or single octave coverage by RF signal. Its frequency step is precise and accurate to 1Hz with a variety of IF and signal bandwidth choices. This series of converter is mainly applied to electronic countermeasure system, radar system, and satellite communication system. The special dual-channel design has an excellent amplitude and phase stability that can be configured with a common synthesizer or double synthesizer work. With an excellent phase noise, clutter suppression, and in-band flatness data, it is able to provide a transparent RF transmission channel to all videos or data communications. All programming commands can be set through a local panel or through network remotely. SUDC-D Series Dual Channel Up/Downconverter is available in both 2U and 4U sizes.

Applications: T&M Systems / Satellite Communications / MIMO

2. Main Characteristics

- Octave RF coverage (S, C, X, Ku, and Ka)
- 2GHz or above instantaneous signal bandwidth
- Amplitude Equalization and Group Delay Equalization
- Variety of commonly used IF and bandwidth combinations
- Excellent phase noise specification (40GHz): $\leq -100\text{dBc/Hz}@10\text{KHz}$
- Internal and external reference switching
- Remote programming
- Choices of coherent dual-channel or non-coherent dual-channel

3. Technical Specifications

For detailed specifications, please refer to SUC-C and SDC-C series microwave up/down converter specifications.