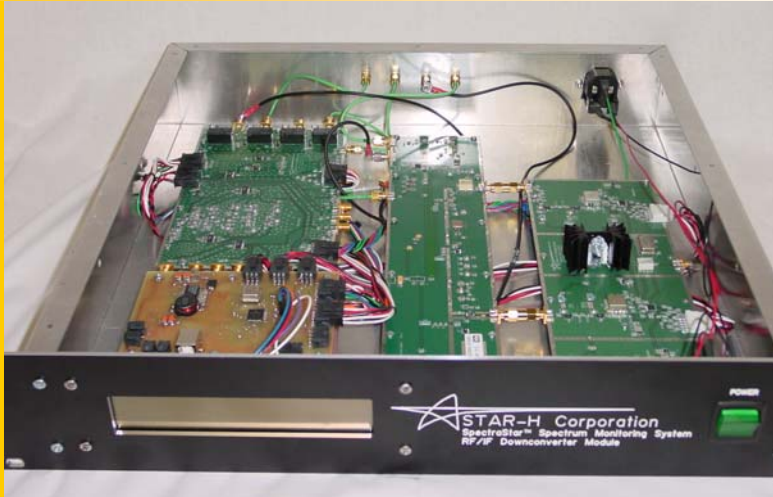


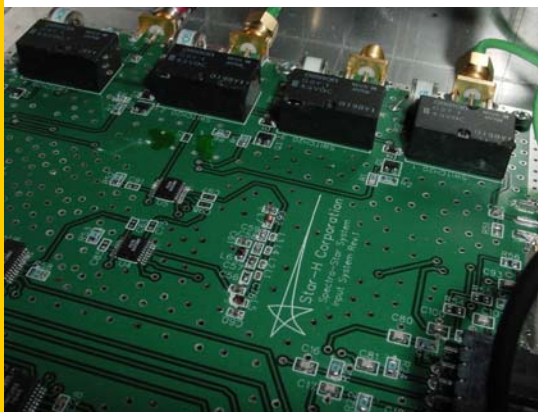
High Performance 500kHz—960 MHz RF Downconverter



Ideal for Software Defined Radio receiver front end applications, this high performance downconverter offers a wide 40-MHz IF bandwidth suitable for use with new 100+ MHz ADC based digitizers. High performance IF filters using helical and SAW technology offer excellent selectivity. The system is available with optional preselector filters for excellent interference-free performance.

Triple conversion design with elliptical anti-alias output filters ensures high sampling accuracy when used with digitizing systems for SDR and spectrum monitoring applications. Rapid band switching in less than 1 millisecond allows wide frequency coverage when needed.

USB and Serial RS-232 computer interfaces provide remote control capability. Control code for use within MATLAB and Simulink models is available for easy implementation with SDR development code.



Preliminary Specifications

- Frequency Range: 500kHz-960 MHz
- IF Bandwidth: 40 MHz
- IF Output: 5-45 MHz
- Noise Figure: 8.4 dB
- System Gain: 8 dB
- OIP3: 10.8 dBm
- Output Full Scale: +4 dBm
- Band switching: <1 mSec
- Mechanical: 2U rack mount
- 120 VAC operation

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