

High Dynamic Range Receiver SSC RDR-003

The RDR-003 Receiver is a high dynamic range receiver that down converts 225-500 MHz signals to 20.4 MHz. Typical applications include digitization (using user supplied sampling system) of weak signals in high signal level environments.

- Very high spurious free dynamic range (78 dB in a 1 MHz BW)
- Low noise figure (8 dB)
- Shielded RF enclosure for operation in high EM environments
- Controlled via either serial RS-232 or USB
- Powered by a single +12V supply

RDR-003 shown with cover removed



For Further Information Contact:

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High Dynamic Range Receiver SSC RDR-003

Input Frequency Range	225-500 MHz, in 2 bands of 225-335 MHz and 335-500 MHz using a common RF input port
Output IF Frequency	20.4 MHz, nominal
Tuning Speed	Less than 25 ms (from synthesizer latch enable)
Tuning Step Size	First LO in 5 MHz steps, Second LO in 250 kHz steps
Close-in Rejection	60 dB, minimum, at +/- 1 MHz from Fc (20.4 MHz), -80 dB at 3 MHz offset.
Noise Figure	8 dB, nominal
Gain Control Range	31 dB, nominal, in 1 dB steps
In-band IP3	+17 dBm, nominal
Spur Free Dynamic Range	78 dB in a 1 MHz bandwidth
LO Phase Noise	Better than -107 dBc/Hz at 10 kHz offset, nominal
LO Radiation	<-96 dBm
Maximum Continuous Input Power	+17 dBm in band
IF and Image Rejection	>82 dB
Size	7.00 x 9.50 x 1.375 inches
Power Requirement	+12 to +14VDC.
Control	USB and Serial (RS-232)
Reference Frequency	80 MHz internal reference frequency, lockable to an external 10 MHz master reference.

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