

# Model 4510

## L-Band to 70 MHz Downconverter



The Model 4510 Downconverter is designed to down convert a 950-1500 MHz frequency band to a 61 to 79 MHz IF signal.

- Custom-tuned for less than 0.6 dB passband ripple over any 18 MHz range across the full 550 MHz band.
- Specifically optimized for TDMA applications.

### Specifications

Input frequency .....	950 to 1500 MHz
Output frequency .....	61 to 79 MHz
Output bandwidth .....	18 MHz
Spectrum .....	Ku-band (non-inverted)
Frequency tuning .....	1 MHz steps
Input impedance .....	75 ohm
Output impedance .....	50 ohm
Input Level .....	-30 to +10 dBm
Output Level .....	-30 to +10 dBm
Gain Control .....	> 25 db adjustment range
Level stability .....	± 0.3 dB typical, ± 0.6 dB max (in any 18 MHz band)
L.O. Reference .....	10 MHz internal
Frequency stability .....	1.0 ppm
Phase noise .....	> 75dB/Hz @ 1 kHz from carrier
Noise Figure .....	< 14 dB
Input connector .....	F - Female, 75 ohm
Output connector .....	BNC - Female, 50 ohm
Prime Input Power .....	90 - 260 VAC, 47 - 63 Hz, Auto-sensing, 45 Watts Max
Optional DC Power .....	Contact factory for availability
Dimensions .....	1 RU, 19" x 16" x 1.75"
Alarm output .....	Form-C relay
Operating temperature .....	-10o to +50o C

### Monitor and Control

Connector .....	DB-9, Female
Interface .....	RS-232 or RS-485 (4-wire)
Address Selection .....	Soft addressing, front panel selectable

**Other Frequency Ranges and Gain Configurations are available.**

Please see <http://www.satsyscorp.com> for more information.



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