## Analog Signal Processing S450P

S-Series Frequency Agile Heterodyne Processor



The S450P Frequency Agile Heterodyne Processor, offers an economical way to process off-air or cable-delivered signals in CATV headends without sacrificing performance. All adjustments are made via convenient front panel controls; no internal adjustments are required.

Input frequency selection is accomplished with front panel dipswitches located behind a sliding cover. The S450P accepts VHF and UHF broadcast channels up to 801 MHz and cable channels to 450 MHz. Output channel selection is also accomplished with front panel dipswitches that tune in 0.25 MHz increments from 50 to 450 MHz. Other front panel adjustments include: an audio/video ratio (A/V) control which adjusts the aural carrier from -12 dB to -17 dB below the video carrier; an offset adjustment control which enables the output frequency to meet FCC requirements; and an RF output level control which can be adjusted 10 dB down from typical 60 dBmV output. The S450P can accept and process BTSC stereo delivered signals with no added signal degradation.

The S450P full-featured frequency agile heterodyne processor offers an economical way to process off-air or cable-delivered signals in CATV headends without sacrificing performance.

## **BENEFITS INCLUDE:**

- Frequency agile output: 50 to 450 MHz
- BTSC stereo compatibility
- Front panel controls
- On-Channel operation Mode
- FCC Compliant



## **SPECIFICATIONS**

## **RF INPUT**

Input Channels

Impedance

VHF UHF

Signal Level Range Off-Air Channels

Cable Channels

Adjacent. Channel Rejection

AGC Range Carrier to Noise Noise Figure

VHF

UHF

Frequency Response

RF OUTPUT

Output Channels FCC Offset

Output Level Output Level Spurious Output

Out-of-Band Noise
Output Impedance

GENERAL

Fuse

Power Requirements

Dimensions

Input Impedance

CONTROLS/INDICATORS

Front Panel LED Indicator

Front Panel Controls

Rear Panel Connectors, Type F RF Input

VHF and UHF channels to 801 MHz and cable channels to 450 MHz

75 Ohms

75 Ohms

-15 to +25 dBmV

-15 to +10 dBmV

>60 dB

-15 to +25 dBmV

55 dB (Typical, with +10 dBmV input level)

8 dB (Typical)

10 dB (Typical)

2.5 dB P-P

Channel 2 through 69, (50 to 445.25 MHz)

Front Panel Adjustable +12.5 kHz and +25 kHz

+55 dBmV Min, +60 dBmV Typical

Control 10 dB

>60 dB below video carrier level

>80 dB below video carrier level

75 Ohms

0.5A, 250 V, slo blo

117 Vac, 60 Hz, 35W

19"W x 1.75"H x 7"D (48.07 cm x 4.42 cm x 17.71 cm)

75 Ohms

Power On

Input Channel Selection

**Output Channel Selection** 

RF Output Level

Audio/Video Ratio

-20 dB test point (MG connector)

Offset Adjust

RF Output

IF Out

IF In



