



P-379 Agile Heterodyne Processor 800MHz

P379/379T/379U

Agile Processor

Technical Specifications

- **Selectable Channels** • **800MHz**
- **Analog Television Processor**
- **+60dBmV Output**

Processor Features

The CADCO P379 Processors are Microprocessor Controlled with Self-Diagnostic Monitoring. The Selectable Input Channels receive Off-Air Channels, Cable Channels, HRC Channels, and have an optional T-Channel Input. The Selectable Output Channel options are: Off-Air Channels or HRC Channels.

- Input Channels: Off-Air 2 through 69 (VHF,UHF); Standard Cable 2 through 125 (54 - 806MHz); HRC: 1 through 125 (54 - 800MHz); T-Channels 7 through 14 (7 - 54MHz) OPTIONAL
- Output Channels: Standard Cable: T7 through 118 (7 - 750 MHz); HRC: 1 through 118 (54 - 750MHz); Off-Air: 2 through 69 (VHF, UHF) OPTIONAL
- Automatic Input Offset Control: Unique Circuit Detects and Corrects Input Signal Offset Frequency for Heterodyne Processing Before the IF
- SAW Filtered IF: Designed for Adjacent Channel Operation
- FCC Offsets, Standard as Required by FCC
- +60dBmV Output Using Low-Distortion Hybrid Amplifiers
- Non-Volatile Channel Memory
- Synthesized Oscillators - Crystal Referenced Phase Locked
- Digital LED Channel Readout
- Muted RF During Tuning
- RS232 Control Option with Daisy-Chain Capability
- External IF Loop
- Surface Mount Technology (SMT)

Tuner Section

Input Impedance	75Ω, unbalanced
Input Frequencies	7MHz - 806MHz
Off-Air Channels	54MHz - 806 MHz
RF Bandwidth	6.0 MHz
Input AGC Range	-10 to +20dBmV, +50 to +80dB _μ V
Input AGC Type	Sync Tip Reference
Recommended Input	0 to +10dBmV, +60 to +70dB _μ V
Noise Figure	9dB VHF, 10dB UHF
Adjacent Channel Rejection	60dB
Image Rejection	60dB
Audio Carrier Adjustment Range	Flat Response to -10dB from Input levels

IF Section

Video IF Level	+37dBmV, +97dB _μ V
Audio IF Level	+22dBmV, +82dB _μ V
Return Loss	>14dB
IF Frequency: Video Carrier	45.75MHz
IF Frequency: Audio Carrier	41.25MHz
Video-Sound Spacing	+4.5MHz
Vestigial Sideband Width	0.75MHz
Second IF Frequency	945.75MHz

RF Section

Output Frequency	7 - 750MHz
Frequency Tolerance	+/- 1KHz
Output Level (Adjustable)	+60dBmV (+120dB _μ V)Output
Impedance	75Ω
Spurious Output	<-60 dBc
Return Loss	>14 dB

Mechanical and Power

Power	115/240 VAC 50/60 Hz, 34 Watts
Operating Temperature	40°F to 110°F
Standard Dimensions	19"W x 1.75"H x 14"D
Metric Dimensions	48.26cm x 4.44cm x 35.56cm
Weight	12 pounds (5.4 kg)
Rack Mounting	Standard 19" Rack

Channel Tuning

Tuned channel number is displayed by 3-number LED on front panel. Input and output channels are displayed independently. Unit incorporates 3-second tuning delay circuit to minimize inadvertent changes of channel.