HCP1550 Heterodyne Channel Processor

The Drake HCP1550 is a high quality, frequency agile channel processor capable of converting any VHF, UHF, or CATV input signal to any standard output channel between 54 through 550 MHz. Input and output frequency, including output frequency offset, are easily set with front panel push wheel switches. A/V ratio and output controls are also provided along with IF loop-through connections to offer exceptional flexibility.

- Low-cost NTSC channel processor
- Synthesized input tuning of off-air TV channels 2 through 69, standard CATV channels 2 through 125, and IRC, HRC channels 1 through 125. All set by a front panel push wheel switch.
- Synthesized RF output on CATV channels 2 through 78 and 95 through 99, set by a front panel push wheel switch.
- Selectable plus or minus output frequency offsets with front panel push wheel switch
- IF SAW filter
- IF loop-through connectors for scrambling encoders or IF stereo processors
- High output power adjustable to +60 dBmV
- Available with "T" Channel upconverter option for reception of channels T7 - T14.
- Made with pride in the U.S.A.

Specifications

Input Section	
Frequency Coverage:	54 through 806 MHz Off-air TV channels 2 through 69, Standard CATV channels 2 through 125, IRC and HRC channels 1 through 125 (Channels T7 - T14 with "T" channel upconverter option)
Frequency Selection:	Selectable by front panel push wheel switches
Input Impedance:	75 Ohms
RF Input Level:	-10 dBmV to +35 dBmV
Noise Figure:	VHF: 8 dB UHF: 10 dB
Tuner Image Rejection:	VHF: 65 dB UHF: 50 dB
Output Section:	
Frequency Coverage:	82 channels, 54 through 550 MHz; Channels 2 through 78 and 95 through 99

Output Level:	+60 dBmV (typically adjustable from +50 to +60 dBmV)
Video Frequency Response:	20 Hz to 4.2 MHz, ± 3 dB
L-C Delay:	± 50 nanoseconds
Frequency Stability:	± 5 PPM of frequency difference between input and output signals
FCC Offset:	Selectable: None or in increments of 6.25 kHz, plus or minus up to 56.25 kHz maximum offset
A/V Ratio Adjustment:	0 to -10 dB relative to input A/V ratio
Spurious Outputs:	-58 dBc minimum, -60 dBc typical (measured at an input level of between 0 to +20 dBmV)
Broadband Noise:	-75 dBc typical, (4MHz noise bandwidth @ ± 12 MHz)
General	
Power Requirements:	115 VAC (± 10%) 60 Hz, 30 watts
Operating Temperature:	0° to +50° Celsius (32° to 122° Fahrenheit), ambient
Dimensions:	1.75 inches (45 mm) Height x 19 inches (483 mm) Width x 8.75 inches (222 mm) Depth
Weight:	7.0 lbs. (3.2 kg.)

Specifications, price, and availability are subject to change without notice or obligation.