



P-617 Agile Heterodyne Processor 800MHz

P617 - MEDEX Agile Processor Technical Specifications

- **Selectable Channels**
- **Analog Television Processor**
- **+60dBmV Output**

Processor Features

The P617 MEDEX Processors are Microprocessor Controlled with Self-Diagnostic Monitoring. The Selectable Input Channels receive Off-Air Channels. The Selectable Output Channel option is: Off-Air Channels

- Input Channels: Off-Air 2 through 69 (VHF,UHF)
- Output Channels: Standard Cable; Off-Air: 2 through 70 (VHF, UHF)
- SAW Filtered IF: Designed for Adjacent Channel Operation
- T.C.X.O. Frequency control Input +/- 150Hz
- +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
- AGC Test Point
- Surface Mount Technology (SMT)
- Standard Dimensions for Rack Mount
- Stable low noise with switching power supply 110 / 220

Tuner Section

Input Impedance	75W, unbalanced
Off-Air Channels	2-70 VHF & UHF
RF Bandwidth	6.0 MHz
Input AGC Range	
With Preamp	Min: -16dBmV; Max: 0dBmV, +44dB μ V to +60dB μ V
Without Preamp	Min: -5dBmV; Max: +20dBmV +55dB μ V to +80dB μ V
Input AGC Type	Sync Tip Reference
Recommended Input	0 to +10dBmV, +60 to +70dBmV
Noise Figure	9dB VHF, 10dB UHF
Adjacent Channel Rejection	60dB
Image Rejection	60dB
Audio Carrier Adjustment Range	Flat Response to -10dB from Input levels
Input Frequency Control T.C.X.O	+/- 150Hz

IF Section

Video IF Level	+37dBmV, +97dB μ V
Audio IF Level	+27dBmV, +87dB 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	2-70 VHF & UHF
Loss of Input signal	Automatically shuts down Output signal
Frequency Tolerance	+/- 1KHz
Output Level (Adjustable)	+60dBmV (+120dBmV) Output
Impedance	75W
Spurious Output	<-60 dBc
Return Loss	>14 dB
Manually Control	+/- 10KHz or +/- 20KHz offset

Mechanical and Power

Power	110/220 VAC 50/60 Hz, 6W
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.