



SP860

806 MHz Channelized-Agile Processor



- ▶ 132-Channel Range 5.75-806 MHz (CATV T7-T13 and 2-125, TV 2-69)
- ▶ High 60dBmV output for optimum carrier-to-noise performance
- ▶ Over 60dB spurious output and channel rejection provide interference-free adjacent channel operation
- ▶ Sync tip detection AGC circuitry provides wide dynamic range for robust system regulation
- ▶ BTSC stereo compatibility for pass-through of stereo signals
- ▶ Composite audio- video IF loop provides compatibility with encoders, ghost cancellers, and video override applications
- ▶ Digital phase-locked loop (DIP switch controlled PLL) design guarantees precise frequency locking for solid drift-free operation
- ▶ Front panel controls and test point enable easy setup and monitoring
- ▶ SAW filtered for superior adjacent channel performance enables drop-in channel expansion
- ▶ In-band carrier-to-noise ratio >60dB ensures superior picture quality
- ▶ Optional PAL format channels available
- ▶ Lab re-tunable within band

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The **Pico Macom SP860** is a professional re-broadcast grade heterodyne signal processor that converts one channel to another without the need to demodulate and remodulate the signal. The **SP860** features a composite audio-video IF loop, which provides compatibility with encoders, ghost cancellers, and video-override applications. Input and output amplifier band-pass filtering and the use of an IF SAW filter guarantee superior out-of-band carrier-to-noise thereby dramatically improving picture quality. The **Pico Macom SP860** uses state-of-the-art low noise PLL, SAW filter, and AGC techniques to provide superior quality, reliability, and performance. The unique sync tip detection AGC design delivers consistently high quality pictures even at extremely low input levels. High input filter selectivity and SAW filtering provide the **Pico Macom SP860** with the ability to process any single cable channel, even in the most crowded systems. The unit's high frequency and extremely high accuracy phase-locked loop oscillators enable the unit to meet the frequency offset and stability requirements of FCC Docket 21006. Modular construction allows the processor to be bench reconfigured to any combination of input and output channels with minimum effort. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

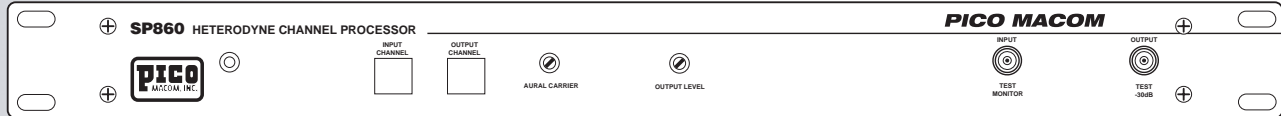
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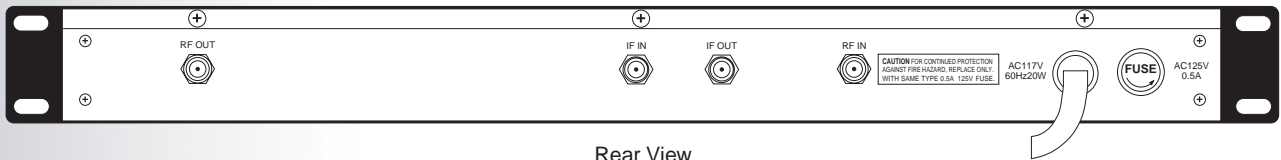
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Front View



Rear View

RF

Input Frequency Range:	5.75 to 806 MHz
Input Channels:	T7 to 125 (STD, HRC, IRC)
Output Frequency Range:	5.75 to 806 MHz
Output Channels:	T7 to 125 (STD, HRC, IRC)
Output Level:	60 dBmV minimum
Input AGC:	-12 to +30 dBmV
AGC Stability:	0.5 dB
Input/Output Impedance:	75 Ohms
Input Output Return Loss:	15 dB
Output Level Adjust:	15 dB
A/V Adjust Range:	0 to 10 dB
Noise Figure:	6 dB VHF, 8 dB UHF
Video Carrier Stability:	
Standard Channels	±10 kHz
CATV (FCC Bands)	±3 kHz
Channel Selectivity:	
Adjacent audio and below	>-60 dB
Adjacent video and above	>-60 dB
Intermodulation Distortion:	>-60 dB
Carrier-to-Noise Ratio:	>-60 dB
Differential Gain:	<5% (10 to 90% APL)
Differential Phase:	<5° (10 to 90% APL)
Chroma Luminance Delay:	See note
Spurious Output:	>-60 dB
Frequency Response:	±0.75 dB
IF:	
Aural Frequency	41.25 MHz
Video Frequency	45.75 MHz
Level	35 dBmV

General

Power Input:	117 ±10 VAC, 60 Hz
Dimensions:	19"(L) x 10"(D) x 1 3/4"(H)
Weight:	7.9 lbs.
Test Point:	-30 dB

NOTE: Meets FCC group delay predistortion requirements for color transmission

Ordering Information

SP860 - -
Specify CATV or VHF

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