

HMA SERIES AGILE MODULATORS

■ MODELS HMA-550H : HMA-860H



MODEL HMA-550H



MODEL HMA-860H

■ FEATURES

- 60 dBmV Output
- Low Out-of-Band Noise
- SAW Filtered
- Easy-to-Read LED Channel Display
- Overmodulation Indicators
- Crystal Referencing PLL Tuning
- Switching Power Supply
(Operates from 90-260 VAC)
- BTSC Stereo Compatible
(Built-in Encoder Available)
- Triple I.F. Loop

▼ CUSTOMER NOTES:

FREQUENCY AGILE MODULATORS

The **HMA-550H** and the **HMA-860H** series are high quality SAW filtered, frequency agile modulators specifically designed to meet the highest CATV performance standards. All channels are easily selected by front panel switches and verified by an easy-to-read LED channel display. The modulators feature an extremely low out-of-band noise level allowing their use in larger channel head-ends. The user-friendly front panel controls make the **HMA-550H** and the **HMA-860H** series modulators the ideal choice for any system where performance, reliability, and affordability are required.

HMA SERIES AGILE MODULATORS

SPECIFICATIONS

RF	HMA -550H	HMA -860H
Output Channels:	Ch. 2 - 78 (54 - 550 MHz)	Ch. 2 - 135 (Ch. 2 - 78 60 dB, Ch. 79 - 135 57 dB)
FCC Offsets	±12.5 kHz and ±25 kHz (Selectable)	±12.5 kHz and ±25 kHz (Selectable)
Output Level	45 - 60 dBmV (Adjustable)	45 - 60 dBmV (Adjustable)
A/V Ratio	-9 to -20 dB (Adjustable)	-9 to -20 dB (Adjustable)
Frequency Stability	±5 KHz (Meets FCC Docket 21006)	±5 KHz (Meets FCC Docket 21006)
Aural Carrier Frequency	4.5 MHz ± 1 kHz	4.5 MHz ± 1 kHz
Spurious Outputs	-60 dB c	-60 dB c
C/N (In-Band)	65 dB c	65 dB c
Out-of-Band Noise	-75 dB c (4 MHz Bandwidth)	-75 dB c (4 MHz Bandwidth)
Output RL	-	-

VIDEO

Minimum Input Level	.7V p-p (for 87.5% Modulation)	.7V p-p (for 87.5% Modulation)
Frequency Response	±1 dB (50 Hz to 4.2 MHz)	±1 dB (50 Hz to 4.2 MHz)
Video C/N	60 dB	60 dB
Hum and Noise	-60 dB	-60 dB
Modulation Range	0 - 90%	0 - 90%
Input Impedance	0 - 90%	0 - 90%
Differential Phase	5°	5°
Differential Gain	± 5% Max	± 5% Max
Group Delay	75 nsec	75 nsec
Overmodulation Indicator	87.5% ± 3%	87.5% ± 3%

AUDIO

Input Level	200 mV (25kHz Dev)	200 mV (25kHz Dev)
Input Impedance	10K Ohm (Un-balanced)	10K Ohm (Un-balanced)
Distortion (THD)	1% Maximum	1% Maximum
Flatness	±1 dB (50 Hz to 15 kHz)	±1 dB (50 Hz to 15 kHz)
Overmodulation Indicator	??	??
Pre-Emphasis	??	??
BTSC Stereo Encoder	Optional	Optional

CONNECTIONS

Input, Output, IF	F	F
Audio Input	RCA	RCA

GENERAL

Power Requirements	90 - 260 VAC 25 W	90 - 260 VAC 25 W
Operating Temperature	0° to 50° Celsius	0° to 50° Celsius
Dimensions	19" x 1.75" x 12"	19" x 1.75" x 12"
Weight	7 lbs.	7 lbs.
Auxilliary Outlet	117 VAC, 600 W	117 VAC, 600 W
Test Port	-30 dB	-30 dB