

FIXED CHANNEL MODULATORS

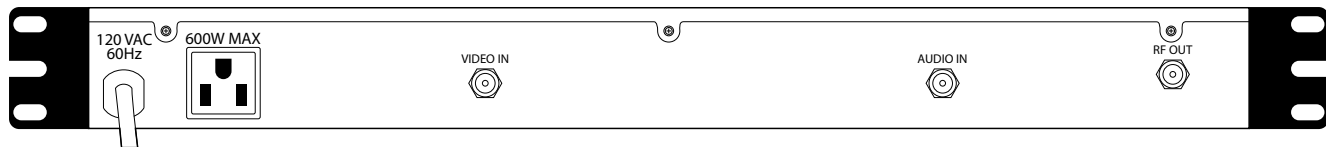
MODELS HPM55-* : HSM55-*



MODEL HPM55-*



MODEL HSM55-*



REAR VIEW OF HPM55-* & HSM55-*

FEATURES

- **20 Years of Proven Reliability**
- **Adjacent Channel Performance**
(Except Sub-band)
- **PLL Controlled Oscillator**
- **Low Out-of-Band Noise**
- **Complies with FCC Offsets & Accuracy Requirements**
- **Includes New Video Low-Pass Filter**
- **T8 - T14 Available** (HPM)
- **Auxiliary AC Outlet**

HPM55-* : FIXED CHANNEL MODULATOR

The **HPM55-*** is an adjacent channel audio/video modulator specifically designed for head-ends requiring proven performance. The HPM55's internal filters provide sharp VSB rejection for adjacent channel operation while maintaining similar C/N and video response found in more expensive SAW modulators.

HSM55-* : FIXED CHANNEL MODULATOR

The **HSM55-*** is the same proven modulator as the **HPM55-*** with additional SAW filtering providing unparalleled adjacent channel performance.

AVAILABLE OPTIONS

Stereo Encoder (*ST-MOD*)



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SPECIFICATIONS

RF	HPM55-*	HSM55-*
Output Channels	2 - 13 CATV (54 - 216 MHz) A - W CATV (121 - 300 MHz) T8 - T14 CATV (13 - 54 MHz)	2 - 125 CATV (54 - 750 MHz) 14 - 69 UHF (Optional)
FCC Offsets (Where Applicable)	±12.5 kHz, ±25 kHz	±12.5 kHz, ±25 kHz
Output Level	40 - 55 dBmV (Adj.)	40 - 55 dBmV (Adj.)
A/V Ratio	-11 to -18 dB (Adj.)	-11 to -18 dB (Adj.)
Frequency Stability	±5 kHz (Meets FCC Docket 21006)	±5 kHz (Meets FCC Docket 21006)
Aural Carrier Frequency	4.5 MHz ± 1.5 kHz	4.5 MHz ± 1.5 kHz
Spurious Outputs	-60 dBc	-60 dBc
C/N (In-Band)	60 dB	60 dB
Out-of-Band Noise	-95 dBc	-95 dBc
Output RL	10 dB	10 dB
VIDEO		
Input Level (Min.)	.5V p-p min. (for 87.5% Modulation)	.5V p-p min. (for 87.5% Modulation)
Frequency Response	±2 dB (50 Hz - 4.2 MHz)	±1.5 dB (50 Hz - 4.2 MHz)
Video C/N	60 dB	60 dB
Hum/Noise	-60 dB	-60 dB
Modulation Range	0 - 90%	0 - 90%
Input Impedance	75 ohms	75 ohms
Differential Phase	±2°	±2°
Differential Gain	±3%	±3%
Group Delay	75 ns	75 ns
AUDIO		
Input Level	.4V p-p (25 kHz Dev)	.5V p-p (25 kHz Dev)
Input Impedance	600 ohms (Unbalanced)	600 ohms (Unbalanced)
Distortion (THD)	1.5%	1.5%
Flatness	±1 dB (50 Hz - 15 kHz)	±1 dB (50 Hz - 15 kHz)
Pre-Emphasis	75 µs	75 µs
BTSC Stereo Encoder	Optional	Optional
CONNECTORS		
Video Input, RF Output	F	F
Audio Input	F	F
GENERAL		
Power Requirements	117VAC, 60 Hz, 7 W	117VAC, 60 Hz, 7 W
Operating Temperature	0° to 50° Celsius	0° to 50° Celsius
Dimensions	19" x 1.75" x 3"	19" x 1.75" x 3"
Weight	5 lbs.	5 lbs.
Auxiliary Outlet	117VAC, 600 W	117VAC, 600 W
Test Port	-20 dB	-20 dB

NOTE: All specifications typical unless otherwise noted