## **FIXED CHANNEL MODULATORS**

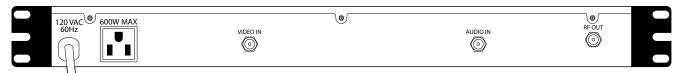
MODELS HPM55-\*: HSM55-\*



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)

# **FIXED CHANNEL MODULATORS**

	FICA	

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