



M-260H/M-260HG

Fixed-Channel Modulator

Technical Specifications

- **Fixed Channel** • **550MHz**
- **Output Channels 2 through 78**
- **Group-Delay Option ("HG")**
- **+60dBmV Output**

Modulator Features

These economical Modulators are designed for outstanding performance in any MATV or SMATV system up to 550MHz. SAW filtering, maximum use of hybrid amplifiers, and independent power supplies provide years of stable service in a minimum maintenance headend.

- Fixed Channel Modulators for Use in Adjacent Channel MATV and SMATV Headends
- SAW Filtered - VSB Filtering
- FCC Offsets, Standard as Required by FCC
- Independent Internal Power Supply
- Synthesized Oscillators - Crystal Referenced Phase Locked, Including the Aural Carrier
- Front Panel Controls Adjust Audio and Video Modulation Levels, Aural Carrier Level and Overall RF-Output Level
- External IF Loop
- LED Audio/Video Over Modulation Indicators
- Surface Mount Technology (SMT)

Available Modular Options

- 4.5 MHz Sub-carrier and Baseband Audio Inputs
- "G" Option: Group-Delay

Video Section

	System M/N
Input: C3F Neg	NTSC
Input Impedance	75Ω, unbalanced
Frequency Response	+/- 1.0 dB
Bandwidth	4.2 MHz
Differential Gain	3% Max
Differential Phase	2 Degrees Max
Hum and Noise	-60 dB

Audio Section

Input: 50 Hz - 15 KHz	1.0V _{P-P} (0 dBmV)
Impedance	600Ω, balanced
Frequency Response	+/- 1.0 dB
Frequency Tolerance, +/- 500Hz	4.5 MHz
Frequency Deviation	+/- 25 KHz
Harmonic Distortion	1% max
Pre-emphasis	75 μs

IF Section

Video IF Level	+37 dBmV
Audio IF Level	+22 dBmV
Return Loss	>14 dB
IF Frequency, Video Carrier	45.75 MHz
IF Frequency, Audio Carrier	41.25 MHz
Video-Sound Spacing	+4.5 MHz
Vestigial Sideband Width	0.75 MHz

RF Section

Output Frequency	54-550 MHz
Frequency Tolerance	+/- 3 KHz
Output Level	+60 dBmV (+120 dBμV)
Output Impedance	75Ω, unbalanced
Spurious Output	<-60 dB
Return Loss	>14 dB
Frequency Response From	<2 dB

Mechanical and Power

Rack Mounting	For Standard 19" Rack Mounts
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)
Power	115/240 VAC 50/60 Hz 6 watts
Operating Temperature	40 to 110 degrees F