



VMM806 / VMM860 VIDEO MODULATOR



The Drake VMM806/VMM860 Video Modulator is a professional quality modular headend system designed to optimize rack space. The VMM806/VMM860 is a high quality fixed channel heterodyne audio/video modulator. One to twelve modulators can be mounted in the same amount of rack space typically required for two standard size units. Ideally suited for private cable, hotels and motels, institutional, and SMATV applications, the VMM806/VMM860 accepts video and audio baseband signals from a satellite receiver, TV camera, videotape recorder, TV demodulator, or similar signal sources.

- Low-cost NTSC modulator
- +45 dBmV output. Adjustable from +30 to +45 dBmV
- SAW filtering for superior adjacent channel performance
- Front panel control of RF output level, A/V ratio, and video/audio modulation
- Complies with FCC Rules Part 76
- Rack mount and power supply sold separately



VMM806/VMM860 Technical Specifications

RF	
Frequency Range:	601 through 860 MHz. (VMM860) 601 through 806 MHz. (VMM806)
Frequency Selection:	Set at the factory to one of the following channels: Cable Channels 87 through 126 (VMM806) Cable Channels 87 through 135 (VMM860) or UHF TV Channels 36 through 69
Output Level:	+45dBmV minimum, typically adjustable from +30 to +45 dBmV
Output Impedance:	75 Ohms, return loss of 12 dB

A/V Ratio:	Audio Carrier -20 to -10 dB referenced to video carrier, adjustable
Frequency Stability:	± 5 kHz (Visual Carrier)
Intercarrier Frequency:	4.5 MHz
FCC Frequency Offsets:	All aeronautical channels are offset positive
Spurious Outputs:	-65 dBc, measured at -15 dB A/V ratio and with modulator output level of +45 dBmV
Broadband Noise:	-95 dBc (4MHz bandwidth, ±12MHz offset)
Video	
Input Level for 87.5% modulation:	1 Vp-p ± 3 dB, manual gain adjustable with front panel control
Input Impedance:	75 Ohms, return loss of 18 dB minimum
Frequency Response:	20 Hz to 4.2 MHz, ± 1 dB
Video S/N:	60 dB luminance weighted
Differential Gain:	± 3% (10 to 90% APL)
Differential Phase:	± 3 degrees (10 to 90% APL)
Audio	
Input Level for 25 kHz Peak Deviation:	140 mV minimum. Manual gain adjustment with front panel control
Input Impedance:	10K Ohms, unbalanced
Pre-emphasis:	75 m Seconds (Defeatable via internal jumper for BTSC baseband compatibility)
Frequency Response:	20 Hz to 15 kHz, ± 1 dB referenced to 75 m Seconds pre-emphasis curve. (20 Hz to 100 kHz if pre-emphasis is defeated.)
Inter-carrier Stability:	± 5 kHz, 0° to 50° Celsius (32° to 122° Fahrenheit)
Total Harmonic Distortion:	1.0% maximum
Hum and Noise:	-60 dB minimum, referenced to 25 kHz peak deviation
General	
DC Power Input:	+12 VDC @ 170 mA, +5 VDC @ 75 mA
Operating Temperature:	0° to 50° Celsius (32° to 122° Fahrenheit), ambient.
Dimensions:	3.5 inches (89 mm) Height x 1 inch (25 mm) Width x 7.5 inches (191 mm) Depth
Weight:	10.7 ounces (0.30 kg.)

Specifications, price, and availability are subject to change without notice or obligation.

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