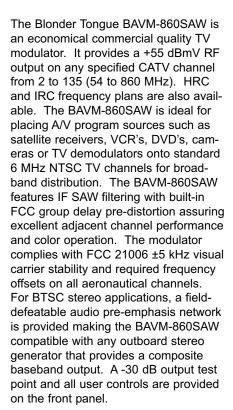




## Features

- Meets FCC Docket 21006 Aeronautical Frequency Offset Requirements
- Fully Compatible with BTSC Encoded Stereo Audio
- Front Panel Accessible Level Controls for Easy Set-Up and Adjustments
- Low Cost High Performance Channelized Audio/Video Modulator
- · AC Convenience Outlet





## **Specifications**

RF

Frequency Range: CATV Channels 2 to 135
Output Level: 55 dBmV, Min
Output Level Range: 15 dB, Continuously
Adjustable by Front Panel Output Level

Adjustable by Front Panel Output Level
Control

Audio/Video Carrier Ratio Control: -7 dB to -20 dB

Frequency Tolerance:

±10 kHz - Standard Channels ±5 kHz FCC 21006 Offsets

Audio Carrier Frequency Setting ±1 kHz, Max

4.5 MHz Above Video Carrier

RF to Video Response from Fv-0.5 MHz to Fv+4.2 MHz: 1 dB P/V

Broadband Noise: -90 dBC

Spurious Output in 50 – 860 MHz Range @ +55 dBmV Output: -60 dBc

Output Match (Return Loss): 12 dBc Vestigial Sideband Response:

@Channel Edge -20 dB,

@Adjacent Channel -40 dB

## Video

Input for 87.5% Modulation: 0.7V to 2.5 V P-P Video Input Return Loss: 18 dB Video Carrier-To-Noise Ratio in 4 MHz Bandwidth: 62 dB P-P Video to 60 Hz RMS Hum Ratio: 60 dB Differential Gain at 87.5% Modulation ≤ 5% Differential Phase at 87.5% Modulation ≤ 5° Group Delay: 170 ± 50 nS

## **Audio**

Input Impedance: 10K Ω, Unbalanced
Input for 25 KHz Peak Deviation:
140 mV RMS
Audio Frequency Response:
±1.0 dB (50 Hz to 15 KHz ref to std
75 msec Pre-emphasis)

75 msec Pre-emphasis)
4.5 MHz Intercarrier Stability. ±5.0 kHz

General

Power Requirements: 105-130 VAC, 60 Hz, 10.5 W Temperature Range: 0 to +50 °C

Mechanical

Dimensions (W x H x D): 19 x 1.75 x 3 in. 482.6 x 44.45 x 76.2 mm

Line Cord:

3 Wire Grounded 3 Wire Convenience Outlet Weight: 4 lbs., 1.81 kg

Connectors

Audio In: "F" Female Video In: "F" Female RF Out: "F" Female

RF Output Test - 30 dB: "F" Female

Ordering Information

ModelStock #DescriptionBAVM-860SAW5990 300Channelized Audio/Video Modulator, SAW filtered 54-300 MHzBAVM-860SAW5990 860Channelized Audio/Video Modulator, SAW filtered 300-860 MHz

Specifications Subject To Change Without Notice

Rev 12-11

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