

Audio/Video Modulator

BAVM-860SAW



○ Features & Benefits

- 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

The Blonder Tongue BAVM-860SAW is an economical commercial quality TV modulator. It provides a +55 dBmV RF output on any specified CATV channel from 2 to 79. HRC and IRC frequency plans are also available. The BAVM-860SAW is ideal for placing A/V program sources such as satellite receivers, VCRs, DVDs, cameras or TV demodulators onto the standard 6 MHz NTSC TV channels for broadband distribution. The BAVM-860SAW features IF SAW filtering with built-in FCC group delay pre-distortion assuring excellent adjacent channel performance and color operation. The modulator complies with FCC 21006 with +/-5 kHz visual carrier stability and required frequency offsets on all aeronautical channels. For BTSC stereo applications, a field defeatable audio pre-emphasis network is provided making the BAVM-860SAW compatible with any outboard stereo generator that provides a composite baseband output. A -30 dB output test point and all user controls are provided on the front panel.

○ Specifications

RF

Frequency Range: CATV Channels 2 to 79
 Output Level: 55dBmV. Min
 Output Level Range:
 15 dB, Continuously 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:
 0.7 V 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)
 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

Refer to product instruction manual for additional specification measurements and notes.

○ Ordering Information

Model	Stock No.	Description
BAVM-860SAW	5990 300	Channelized Audio/Video Modulator, SAW Filtered 54-300 MHz
BAVM-860SAW	5990 860	Channelized Audio/Video Modulator, SAW Filtered 300-860 MHz