Audio/Video Modulator

BAVM-860SAW



O 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 135 (54 to 860 MHz). HRC and IRC frequency plans are also available. The BAVM-860SAW is ideal for placing A/V program sources such as satellite receivers, VCR's, DVD's, cameras or TV demodulators onto 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 preemphasis 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.

O 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 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: \leq 5% Differential Phase at 87.5% Modulation: \leq 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
RAVM-860SAW	5990.860	Channelized Audio Video Modulator SAW Filtered 300-860 MHz