

AMCM-860 is a frequency-agile analog audio/video modulator available in NTSC channels 2-135 (54-860 MHz), and the PAL B, G, and I channels in the same frequency range. Stereo audio output is available only for the NTSC models.



Features

- Front-panel LED display and Controls for convenient monitoring and operation
- Compact design allows for deployment of 12 channels in 2RU
- Integrated Stereo encoder available for NTSC channels
- Utilizes SAW filters for improved performance
- Die-cast chassis for RFI immunity

Ordering Information

Model	Stock #	Description
AMCM860B	7766B	Frequency-agile Audio/Video Modulator, +45 dBmV, 54-860 MHz
AMCM860S	7766S	Frequency-agile Audio/Video Modulator, Stereo, +45 dBmV, 54-860 MHz
MIRC-12V	7715	Rack Chassis (holds up to 12 modulators)
MIPS-12C	7722C	100-240 VAC 50/60Hz power supply (one per chassis)

7766B/S (1 of 12) 7722C 7715



Specifications

INPUT

Video	
Connector:	"F" Female
Impedance:	75 Ω
Return Loss:	24 dB
Input Level:	1.0 volt Peak-to-Peak (87.5% depth of modulation)
Frequency Response:	1.0 dB Peak-to-Valley (fv to fv+4.2 MHz)
Peak to Peak Video to FM SLM Ratio:	65 dB
Signal-to-Noise Ratio:	62 dB (Weighted; 4MHz bandwidth)
Differential Gain:	2.0% (87.5% depth of modulation)
Differential Phase:	1.0 degree (87.5% depth of modulation)
Chrominance/Luminance Delay:	Per FCC Requirements
Mono Audio (standard)	
Connector:	RCA
Input Impedance:	Greater than 10 kΩ, unbalanced
Input Level: (for 25 kHz deviation)	0.4 volt peak-to-peak (min.)
Frequency Range:	50 Hz to 12 kHz
Frequency Response:	± 1 dB
Total Harmonic Distortion:	1% @ 25 kHz deviation
Signal-to-Noise Ratio:	N/A
Stereo Audio (optional)	
Connector:	RCA
Input Impedance:	Greater than 10 kΩ, unbalanced
Input Sensitivity: (for 55 kHz peak deviation)	1.0 volt peak-to-peak (with pilot tone)
Frequency Response:	± 0.75 dB (50 Hz to 12 kHz)
Separation:	20 dB @ 50 Hz to 10 kHz

OUTPUT

Connector:	"F" Female
Impedance:	75 Ω
Return Loss:	12 dB
Frequency Range:	54 to 860 MHz (NTSC CATV Ch. 2 -135)
Power Level:	+45 dBmV
Power Level Range:	10 dB continuously adjustable
Carrier-to-Noise: (In Channel)	63 dB
Broadband Noise:	-75 dBc (@ +45 dBmV output level, 4 MHz bandwidth)
Spurious Outputs:	-60 dBc
Aural/Visual Carrier Ratio:	-11 to -19 dB continuously adjustable
4.5 MHz Aural Inter-carrier Freq. Tolerance:	±150 Hz; 32 to 122 °F (0 to 50 °C)
Visual Carrier Frequency Tolerance	
Standard Channels:	±10 kHz; 32 to 122 °F (0 to 50 °C)
FCC Aeronautical Channels:	±5 kHz; 32 to 122 °F (0 to 50 °C)

General

Dimensions (W x D x H)	
AVCM Modules:	1.0 x 7.78 x 3.5 inches (25 x 198 x 89 mm)
MIPS-12C Power Supply:	4.6 x 7.5 x 3.5 inches (106 x 191 x 89 mm)
MIRC-12V Chassis:	19 x 12.0 x 5.25 inches (483 x 305 x 133 mm)
Power	
MIPS-12C Power Supply:	100-240 VAC; 50/60 Hz
Power Dissipation:	~ 5 W (max. per AVCM Module)
Weight	
AVCM Module:	0.8 lbs (0.36 kg)
Fully Loaded Chassis:	15.8 lbs (7.2 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

Alarms/Monitoring/Control

Front-Panel Indicator	
Channel No. & Mode:	2-Digit Red LED Display
+100 channel:	Red LED
Video Over-modulation:	Red LED
Audio Over-modulation	Red LED
Stereo:	Green LED
Front-Panel Controls	
Output Level:	Potentiometer
Video Level:	Potentiometer
Audio Level:	Potentiometer
Aural Carrier Level:	Potentiometer

Related Products

Model	Description
AM-60-860	Frequency-agile Audio/Video modulator, +60 dBmV, 54-860 MHz, 1RU
MAVM	Fixed-channel Audio/Video modulator, +60 dBmV, 54-860 MHz, 1RU
ACM	Frequency-agile Audio/Video modulator, +45 dBmV, 54-806 MHz, Twelve modulators in 2RU
MCM	Fixed-channel Audio/Video modulator, +45 dBmV, 54-860 MHz, Twelve modulators in 2RU
AMM	Frequency-agile Audio/Video modulator, +45 dBmV, 54-806 MHz, Twelve modulators in 2RU