

# ACM-806

## AGILE CHANNEL MODULATOR

ACM-806 is a frequency-agile analog audio/video modulator suitable for NTSC channels 2-125 (54-806 MHz).

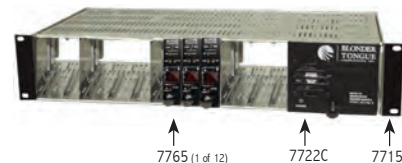


### FEATURES

- Front-panel LED display and Controls for convenient monitoring and operation
- Compact design allows for deployment of 12 channels in 2RU
- Compatible with external stereo generator (BTSC)
- Utilizes SAW filters for improved performance
- Die-cast chassis for RFI immunity

### ORDERING INFORMATION

Model	Stock #	Description
ACM-806	7765	Frequency-agile Audio/Video Modulator, +45 dBmV, 54-806 MHz
MIRC-12V	7715	Rack Chassis (holds up to 12 modulators)
MIPS-12C	7722C	100-240 VAC; 50/60Hz power supply (one per chassis)



Revision Control: 090828

# SPECIFICATIONS

## INPUT

<b>Video Connector:</b>	"F" Female
<b>Impedance:</b>	75 Ω
<b>Return Loss:</b>	24 dB
<b>Input Level:</b>	1.0 volt Peak-to-Peak (87.5% depth of modulation)
<b>Frequency Response:</b>	1.0 dB Peak-to-Valley (fv to fv+4.2 MHz)
<b>Peak to Peak Video-to-RMS Hum Ratio:</b>	65 dB
<b>Signal-to-Noise Ratio:</b>	60 dB (Weighted; 4MHz bandwidth)
<b>Differential Gain:</b>	2.0% (87.5% depth of modulation)
<b>Differential Phase:</b>	1.0 degree (87.5% depth of modulation)
<b>Chrominance/Luminance Delay:</b>	Per FCC Requirements
<b>Mono Audio (standard) Connector:</b>	RCA
<b>Input Impedance:</b>	Greater than 10 kΩ, unbalanced
<b>Input Level: (for 25 KHz deviation)</b>	0.4 volt peak-to-peak (min.)
<b>Frequency Range:</b>	50 Hz to 12 kHz
<b>Frequency Response:</b>	± 1 dB
<b>Total Harmonic Distortion:</b>	1% @ 25 kHz deviation
<b>Signal-to-Noise Ratio:</b>	N/A

## OUTPUT

<b>Connector:</b>	"F" Female
<b>Impedance:</b>	75 Ω
<b>Return Loss:</b>	10 dB
<b>Frequency Range:</b>	54 to 806 MHz (NTSC CATV Ch. 2 -125)
<b>Power Level:</b>	+45 dBmV
<b>Power Level Range:</b>	10 dB continuously adjustable
<b>Carrier-to-Noise: (In Channel)</b>	63 dB
<b>Broadband Noise:</b>	-75 dBc (@ +45 dBmV output level, 4 MHz bandwidth)
<b>Spurious Outputs:</b>	-60 dBc
<b>Aural/Visual Carrier Ratio:</b>	-11 to -19 dB continuously adjustable
<b>4.5 MHz Aural Inter-carrier Freq. Tolerance:</b>	±150 Hz; 32 to 122 °F (0 to 50 °C)
<b>Visual Carrier Frequency Tolerance</b>	
<b>Standard Channels:</b>	±10 kHz; 32 to 122 °F (0 to 50 °C)
<b>FCC Aeronautical Channels:</b>	±5 kHz; 32 to 122 °F (0 to 50 °C)

## GENERAL

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

## ALARMS/MONITORING/CONTROL

<b>Front-Panel Indicator</b>	
<b>Channel No. &amp; Mode:</b>	2-Digit Red LED Display
<b>+100 channel:</b>	Red LED
<b>Video Over-modulation:</b>	N/A
<b>Audio Over-modulation:</b>	N/A
<b>Front-Panel Control</b>	
<b>Output Level :</b>	Potentiometer
<b>Video Level:</b>	Potentiometer
<b>Audio Level:</b>	Potentiometer
<b>Aural Carrier Level:</b>	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
AMCM	Frequency-agile Audio/Video modulator, +45 dBmV, 54-860 MHz, Twelve modulators in 2RU
MICM	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

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