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General

The model H-132-6A AGC-Video Amplifier meets today's high frequency band instrumentation requirements. Each AGC-Video Amplifier has six separate isolated outputs for driving several devices from a common source. Two amplifiers are housed in a single Model VS-106 chassis with a common power supply. Each AGC-Video Amplifier is a removable plug-in unit with front panel meter, test points and controls.

The AGC-Video Amplifier has two modes of operation: AGC or Video, switch selectable. In the AGC mode of operation, the gain of the amplifier is the input amplitude dependent and will maintain a constant output amplitude of one volt RMS over the dynamic input range of 1V peak-to-peak to 7V peak-to-peak. The AGC amplifier is excellent for use with tape recorders or other devices where constant output amplitude is desired. In the Video mode of operation, the AGC action is defeated and the amplifier operates as a straight DC video amplifier with adjustable gain. In both modes of operation, the six amplifier outputs have low output impedance and are capable of driving terminated 75 ohm coaxial cable.

The flexibility of the AGC-Video Amplifier meets a wide variety of today's Instrumentation requirements.

FEATURES

- Automatic Gain Control
- High Frequency Wide Band, 10MHz
- Multiple Isolated Outputs, 6 EA/Plug-in
- Low Output Impedance

APPLICATIONS

- Buffer Amplifier
- Line Driver
- AGC Amplifier
- General Purpose Amplifier for Video, Telemetry, Timing

Electrical Specifications:

- Number of Amplifiers: 2
- Output Level for Video: 1V p-p to 5V p-p (into 75 ohm load). Adjustable.
- Modes of Operation: AGC/VIDEO, switch selectable.
- Frequency Response for AGC: 400hz – 10MHz \pm 1db.

- *Input Impedance >2000 ohms.*
- *Frequency Response for Video: DC – 10MHz ±3db.*
- *Input Voltage Range for AGC: 1V p-p to 7V p-p.*
- *Distortion: Less than 1% THD.*
- *Input Voltage Range for Video: 1V p-p to 7V p-p.*
- *Noise Level: Less than 100 microvolts referred to the input.*
- *Maximum Input Overvoltage: ±15 VDC.*
- *Transient Response: Overshoot less than 1%; rise and fall times less than 50ns.*
- *Number of Amplifier Outputs: 6 ea. per plug-in.*
- *AGC Loop Response: 20 millisecond attack time (approximate): 50 millisecond release time (approximate).*
- *Output Impedance: 75 ohm. Drive 100 feet 75 ohm coaxial cable with 75 ohm termination. Short circuit protected.*
- *Power Requirement: 105 – 125VAC, 50 – 400hz, 60 watts.*
- *Output Level for AGC: 1 VRMS constant for specified performance. Adjustable from 1V p-p to 4V p-p (into 75 ohm load).*

MECHANICAL SPECIFICATIONS

- *Size: 19w x 1.75h x 15d inches.*
- *Weight: Approximately 12 pounds.*
- *Paint: Gray with black letters.*
- *Signal Connectors: Input-output all BNC.*
- *Power: 6 ft. power cord.*
- *Front Chassis Control: Power Switch.*
- *Amplifier Controls:*
 - AGC – Video Switch
 - Meter Adjust
 - Video Gain Adjust
 - AGC Level Adjust
- *Test Points: Input (IN), Output (OUT).*

ORDERING INFORMATION

- *Chassis, Model VS-106*
- *AGC – Video Amplifier, Model H-132-6A*

