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General

The Eon Model ADV-301-123 Video Amplifier is a broadband amplifier with essentially flat frequency response from 30 Hz to 30.0 MHz. This Video Amplifier was designed primarily for NTSC video data. The Model ADV-301-123 has three single ended inputs, each of which has two single ended outputs with separate gain controls.

Electrical Specifications:

- Input Type: Single ended.
- Input Impedance: 75 Ohm Standard.
- Input Signal Amplitude: 0.5 to 5.0V peak-to-peak
- Input Overload Protection: 10V peak-to-peak
- Phase Characteristics: Non-Inverting
- Signal Configuration: Three individual inputs, each with corresponding two outputs

Other impedances available.

- Signal Ground: Tied to chassis ground.
- Output Signal Amplitude: Single ended outputs 0.5V to 3.0V peak-to-peak. Gain adjustable 0.25-2. Maximum amplitude 3V peak-to-peak.
- Bandwidth: Flat within ± 0.4 dB from 30Hz to 30.0MHz at 1V peak-to-peak output, gain = 1.
- Noise: 0.01 peak-to-peak at 1V peak-to-peak output, gain = 1.
- Harmonic Distortion: Less than 2.5% at 1V peak-to-peak output, gain = 1.
- Gain Stability: Less than 5% over temperature.
- Primary Power: Voltage: 28 DC Nominal, 18-36 VDC
Current: Less than 1 ampere.
Ripple: Less than 1.5V peak-to-peak.
Reverse Polarity Protection: Provided.
50 VDC Transient @ 100Ms
- Operating Life: 10,000 hours in specified operating environments

Environmental Specifications:

- *Temperature: -30 degrees C to 70 degrees C.
-50 degrees C to 70 degrees C non-operating.*
- *Altitude: 0 – 30,000 feet.*
- *Humidity: 0 – 95% Relative Humidity, -30 degrees C to 55 C, non-condensing*
- *Vibration: Double Amplitude, Sinusoidal excitation of 0.1 inches from 5 Hz to 20 Hz, and ± 2 g's between 20 Hz and 500 Hz.*
- *Cooling: Conduction, through base plate*
- *Shock: 20 g's for 6-9 mS duration. Any axis.*

Mechanical Specifications:

- *Size: Depth 5.030" Max, Width 6.780" Max, Height 2.700" Max.*
- *Weight: Weight: < 3 LBS.*
- *Mounting: Mounting: 6 each 0.169 diameter through holes.*
- *Input Power Connector: (J1) PT02E-8-2P
Pin A: +28 VDC
Pin B: 28V return and chassis ground.*
- *Video Input Connector: (J2, J3, J4) BNC*
- *Video Output Connectors: (J5-J6, J7-J8, J9-J10) BNC*

Other connectors available. Specify when ordering.

Connectors and controls mounted on 2.5W x 2.0H inch surface.

