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General

The Eon Model ADV-301-103 Video Amplifier is a broadband amplifier with essentially flat frequency response from 30 Hz to 30.0 MHz. This Video Amplifier was originally designed for missile applications but is now also used extensively in aircraft, ground vehicle and homeland security applications. The Model ADV-301-103 has a single ended input and three single ended outputs with separate gain controls.

Electrical Specifications:

- Input Type: Single ended.
- Input Impedance: 75 Ohm Standard. Other Impedances available. Specify when ordering.
- Input Signal Amplitude: 0.5 to 5.0V peak-to-peak
- Input Overload Protection: 8V peak-to-peak
- Phase Characteristics: Non-Inverting
- Outputs: Three

Three single ended outputs with 75 ohm output impedance. Specifications at matched output load. Other impedances available. Specify when ordering.

- Signal Ground: Tied to chassis ground.
- Output Signal Amplitude: Single ended outputs 0.5V to 3.0V peak-to-peak. Gain adjustable 0.25-7. 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 400 milliamps.
Ripple: Less than 1.5V peak-to-peak.
Reverse Polarity Protection: Provided.
- Operating Life: 10,000 hours in specified operating environments

Environmental Specifications:

- *Temperature: -40 degrees C to +85 degrees C operating.
-40 degrees C to +95 degrees C non-operating.*
- *Altitude: 0 – 50,000 feet.*
- *Humidity: 0 – 95%*
- *Vibration: 25 g's any axis.*
- *Acceleration: 35 g's any axis.*

- *Shock: 100 g's for 11 ± 1 msec. Any axis.*

Mechanical Specifications:

- *Size: 2.5W x 3.5L x 2.04 inches.*
- *Weight: 24 ounces.*
- *Mounting: 4 tapped holes for 6-32 screws on 2 x 3 inch centers.*
- *Input Power Connector: (J1) PT02E-8-2P
Pin A: +28 VDC
Pin B: 28V return and chassis ground.*
- *Video Input Connector: (J2) BNC or BNC TRIAX (Trompeter BJ-77 or equivalent). Specify when ordering.*
- *Video Output Connectors: (J3 and J4) BNC or TNC TRIAX (Trompeter BJ-377 or equivalent). Specify when ordering.*

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

