



#### General

In situations where new applications require transmission, recording, displaying or splitting of video signals, the EON video signal amplifier module is specifically designed for the airborne environment. The amplifier is proven in the flight test arena withstanding the stringent environmental requirements of Mil Std 810E.

Eon Instrumentation video amplifiers are completely solid state and employ medium scale integrated circuits through-out the design. The rugged construction and high density packaging techniques utilized in Eon's Video Amplifiers result in a compact assembly capable of operation under severe aerospace environmental conditions. Eon's product line was developed on the missile and fighter aircraft proving ground.

#### Electrical Specifications:

- Input Type: Single end
- Input Impedance: 75  $\Omega$
- Input Signal: Composite
- Input Overload: 15 V p-p
- Phase Characteristics: Non-Inverting
- Output Type: One Single-Ended One Differential
- Output Impedance: 75 $\Omega$
- Connector Types: TNC Coax-Single Ended  
Triax-Differential
- Output Signal: S/E & Diff- .5-1.5 Composite
- Bandwidth:  $\pm$  0.5 db flat 50 Hz- 20 MHz
- Noise: < .01 V p-p
- Harmonic Distortion: <2.5% @1V
- Gain Stability: < .01 V P-P
- Primary Power Mil Std 704E: 18-36 VDC
- Transient: 50 V @ 100 ms.

*Environmental Specifications:*

- *Operating Temp: -40°C to 85°C*
- *Vibration: 15 g's all axes*
- *Shock: 30 g's for 11 msec.*
- *Humidity: 0-95%R.H.*
- *Altitude: 0-50,000 feet*

*Configuration:*

- *Size: 3" H X 2.5"W X 3.5" D*
- *Weight: 24 ounces*

*Eon Instrumentation has full design capability to meet your specialized requirement. Our modular approach can be configured to provide an embedded package for your product's signal requirement.*

