



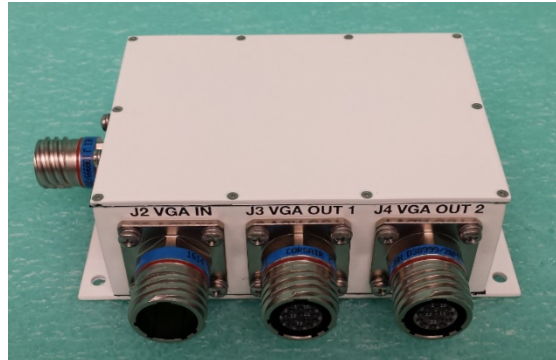
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## VGA/SVID Product Series (10-12-2018)

Model Number	Part Number
ADV-301-VGA	14000-300
ADV-SVID-12	15800-300
ADV-301-VGA-2	15800-300
ADV-301-VGA-2-1	17600-300



*ADV-301-VGA-2 Pictured*

### **General**

The ADV-301-VGA Series consists of several Component Video Amp/Splitters. The system is operated with nominal 28 VDC input power. All independent outputs are unity gain from video in. Different input and output impedances are available upon request, and can be integral with chassis ground as well as different fixed gains from video in.

### **Configuration**

See the attached Outline and Mounting Drawings for the Standard Series with connector types shown on the last Summary page. Video connectors can be any combination of BNC or TNC, single ended or differential, top or side mounted, uncapped or capped with tethers.

### **Specifications:**

*Signal Input/Output:* Single-ended or Differential

*Gain:* Unity

*Finish:* (except for screws, base and connectors): Gold Chromate with black silkscreen

*Input Voltage:* 18-36 VDC

*Power Consumption:* 1.5 - 2.5 Watts depending on configuration

*Input Signal Amplitude:* 0.5 to 5.0V peak-to-peak

*Input Overload:* 10V peak-to-peak

*Phase Characteristics:* Non-Inverting

*Output Signal Amplitude:* Single ended outputs 0.5V to 3.0V peak-to-peak

*Bandwidth:* Flat within  $\pm 0.4$ 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

*Current:* Less than 100 milliamps

*Ripple:* Less than 1.5V peak-to-peak

*Reverse Polarity Protection:* Provided

50 VDC Transient @ 100mSec

*Weight:* 0.6-1.5 lbs (nominal)

***Qualification (Data available upon request):***

*Power:* Mil-Std-704D, 1275

*Environmental:* Mil-Std-810G

*Temperature:*

Storage: -55° to +85°C

Functional: -40° to +71°C

Short Time Operating: +85°C

*Altitude:* Non-Pressurized Area, Cl 1 per MIL-E-5400T (0-50,000Ft)

*Humidity:* DO-160C, Cat A

MIL-STD-810E Method 507.3, Procedure III (Aggravated), 10ea 24 hr cycles

*Salt Fog:* MIL-STD-810E Method 509.3, Procedure I

*Sand and Dust:* MIL-STD-810E Method 510.3, Procedure I

*Acceleration:* Operational: +/-6.5G's, Non-operational: +/-9 G's

*Endurance Sine on Random Vibration:*

MIL-STD-810F Method 514.5 Category 13 and IF-3AA0-08002B.

*Rapid Decompression:* MIL-STD-810E Method 500.3 para II-3.3 Procedure III

*Functional and Crash Safety Shock Testing:*

DO-160C Section 7 Impulse, 6 G's Operational, 15 G's Crash Safety.

*EMI:* Mil-Std-461

Conducted Emissions, CE101

Conducted Emissions, CE102

Radiated Emissions, RE101

Radiated Emissions, RE102

Conducted Susceptibility, CS101

Conducted Susceptibility, CS114

RF Conducted Susceptibility, RFCS

Radiated Susceptibility, RS103

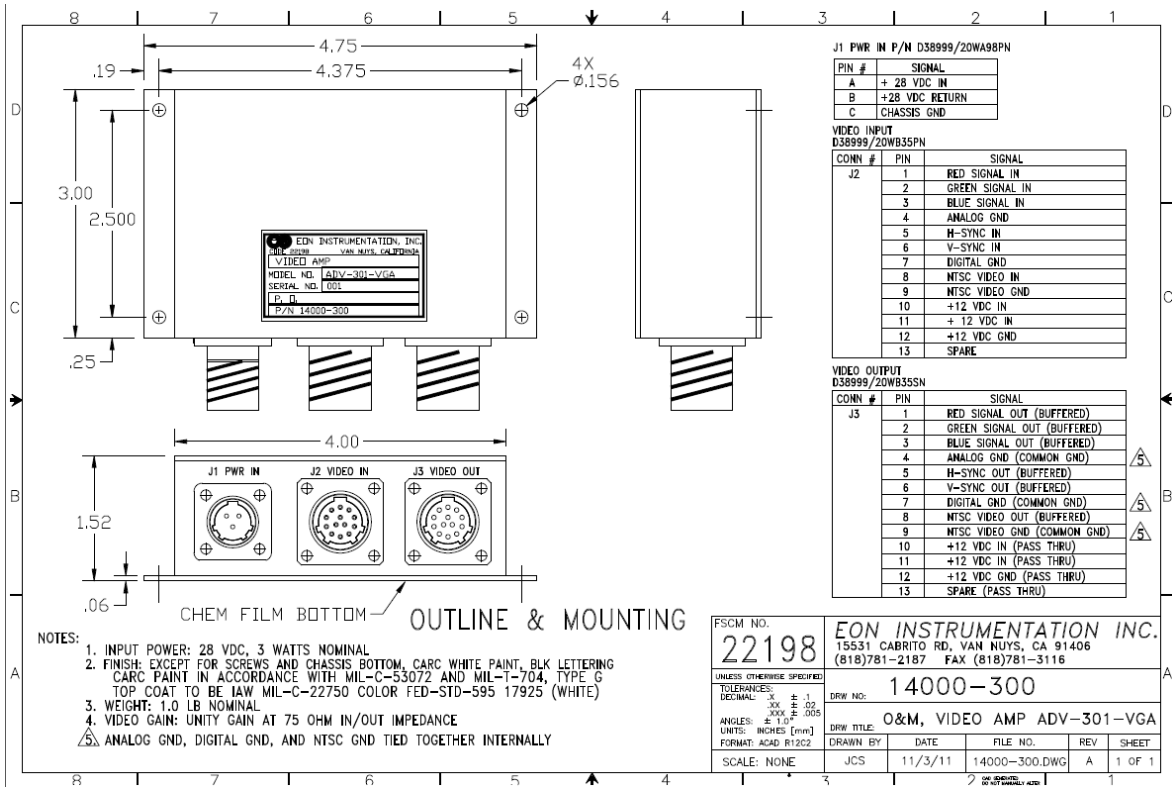
RF Radiated Susceptibility

Electrostatic Discharge, ESD

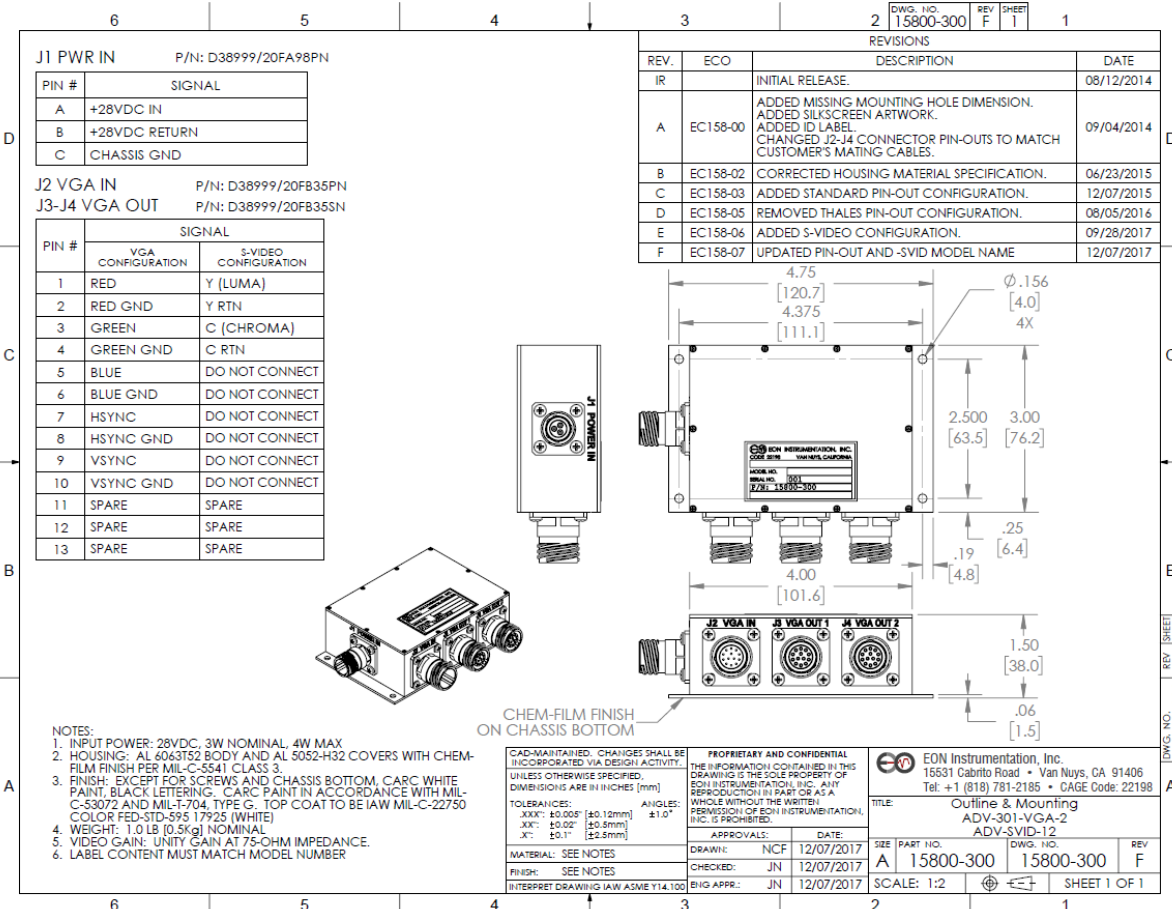
Lightning Induced Transient Susceptibility, LITS

***MTBF:*** 82,000 – 96,000Hrs

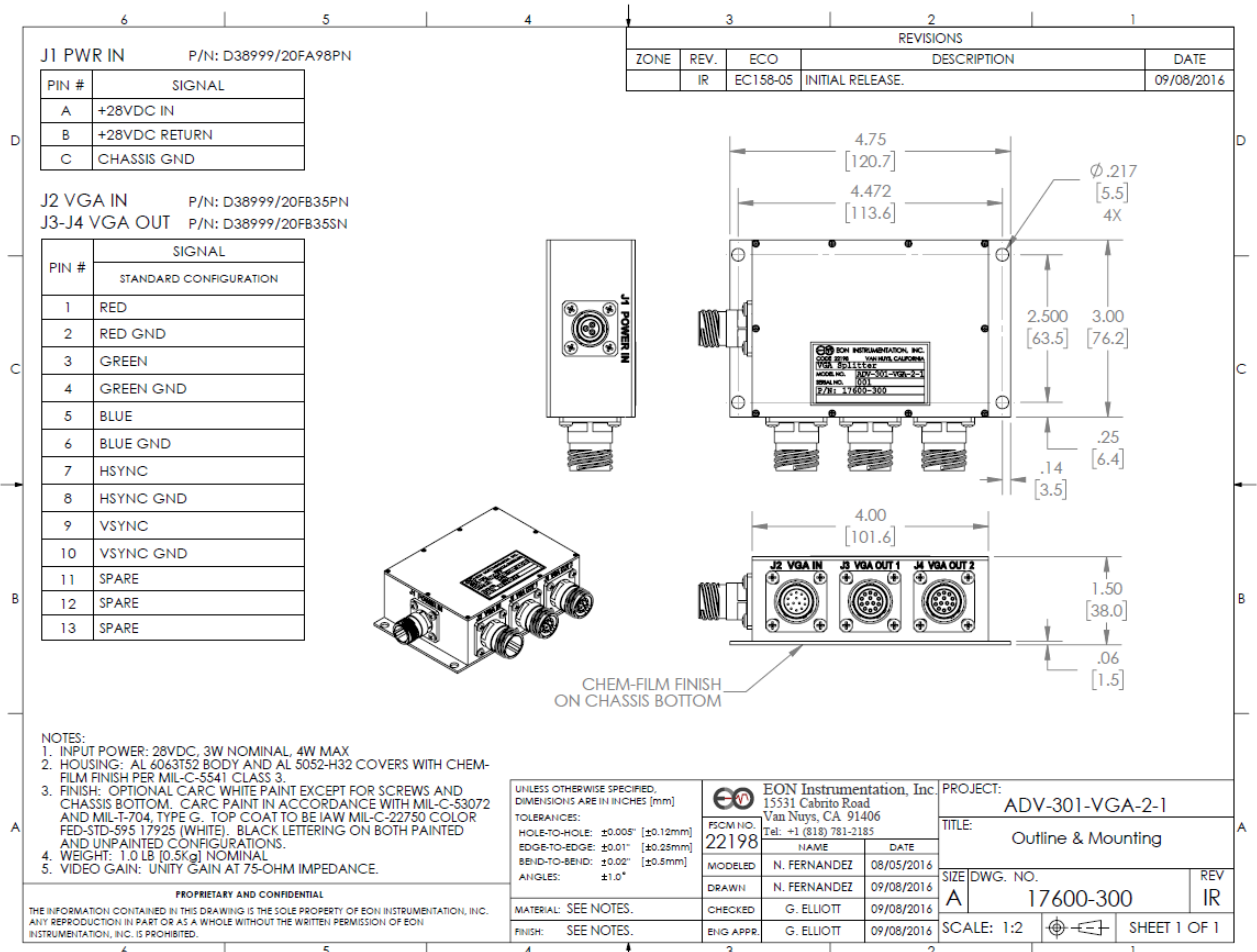
# Outline and Mounting Drawings:



ADV-301-VGA Outline and Mounting Drawing



ADV-301-VGA-2/ADV-SVID-12 Outline and Mounting Drawing



ADV-301-VGA-2-1 Outline and Mounting Drawing