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ADV-301-1340 Data Sheet (10-23-2018)

Model Number	Part Number
ADV-301-1340	18100-300



ADV-301-1340 pictured (front-left, and back-right)

General

The ADV-301-1340 unit consists of forty (40) 1-in, 3-out video cards. Each output has unity gain relative to the input. The ADV-301-1340 unit accepts BNC cables to all inputs/outputs. All video will be analog video. The system will be powered by standard 115VAC 60Hz power. The unit chassis has slide rail mounting holes to fit CLB-203-22 rails. The video cards will be separately removable from the unit for easy repair purposes.

Configuration

See the attached Outline and Mounting Drawing for the dimensions and mounting locations. The ADV-301-1340 unit shall be housed in a 17" x 7" x 8" (L x W x D) exterior metal material: 0.188" thick AL alloy, 6063-T52 or equivalent. For the case and 0.063" thick AL alloy, 5052-H32 or equivalent for the cover and mounting plate.

Specifications:

Signal Input/Output: Single-ended

Gain: Unity

Finish: (except for screws and connectors): Gold Chromate chem-film, grey MIL spec paint with black silkscreen

Input Voltage: 115 VAC, 60Hz

Power Consumption: 10 Watts nominal

Input Signal Amplitude: 0.5 to 5.0V 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

Ripple: Less than 1.5V peak-to-peak

Reverse Polarity Protection: Provided

50 VDC Transient @ 100mSec

Weight: 12lbs (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)

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

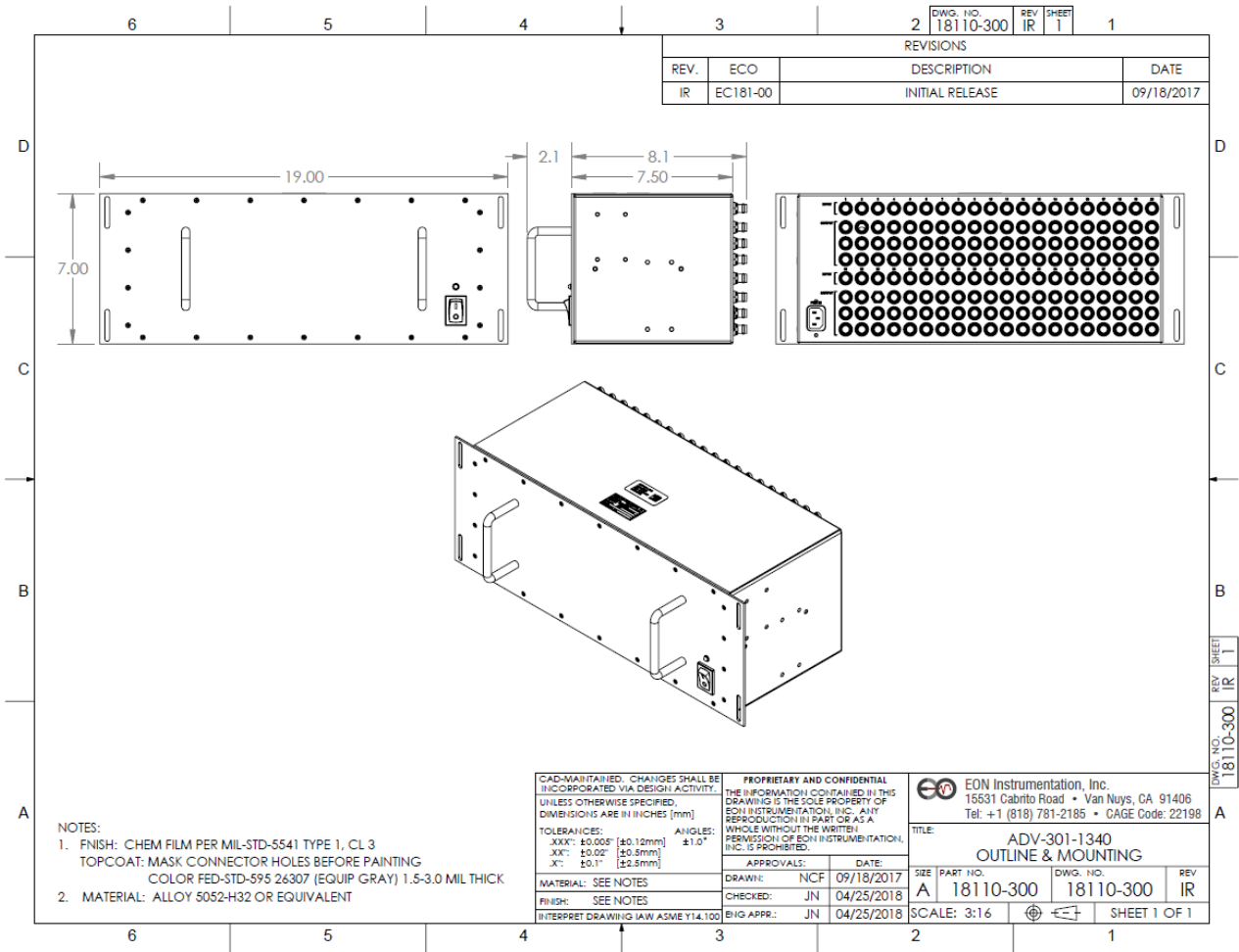
RF Radiated Susceptibility

Electrostatic Discharge, ESD

Lightning Induced Transient Susceptibility, LITS

MTBF: 50,000 Hrs

Outline and Mounting Drawings:



- NOTES:
- FINISH: CHEM FILM PER MIL-STD-5541 TYPE 1, CL 3
TOPCOAT: MASK CONNECTOR HOLES BEFORE PAINTING
COLOR FED-STD-595 26307 (EQUIP GRAY) 1.5-3.0 MIL THICK
 - MATERIAL: ALLOY 5052-H32 OR EQUIVALENT

CAD-MAINTAINED. CHANGES SHALL BE INCORPORATED VIA DESIGN ACTIVITY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES (mm)		PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EON INSTRUMENTATION, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF EON INSTRUMENTATION, INC. IS PROHIBITED.		EON Instrumentation, Inc. 15531 Cabritto Road • Van Nuys, CA 91406 Tel: +1 (818) 781-2185 • GAGE Code: 22198	
TOLERANCES: .XX": ±0.005" [±0.12mm] .X": ±0.002" [±0.5mm] .X": ±0.1" [±2.5mm]		ANGLES: ±1.0°		TITLE: ADV-301-1340 OUTLINE & MOUNTING	
MATERIAL: SEE NOTES		APPROVALS:		DATE:	
FINISH: SEE NOTES		DRAWN: NCF		09/18/2017	
INTERPRET DRAWING IAW ASME Y14.100		CHECKED: JN		04/25/2018	
		ENIG APPR.: JN		04/25/2018	

SIZE	PART NO.	DWG. NO.	REV
A	18110-300	18110-300	IR
SCALE: 3:16		SHEET 1 OF 1	

ADV-301-1340 Outline and Mounting Drawing