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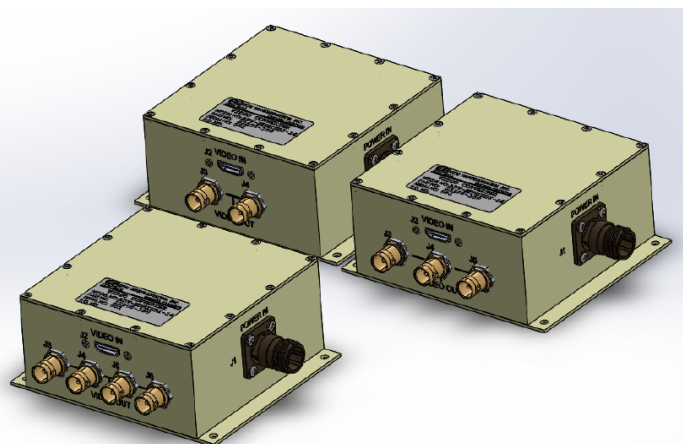
3800 Oceanic Drive, #112
Oceanside, CA 92056

Product Data Sheet

(4/21/2020)

HDMI/DVI/DisplayPort to SDI Video Converter / Splitter Series

Model Numbers:		P/N:
ADV-HDMISDI-12	(1 in 2 out)	21800-300
ADV-HDMISDI-13	(1 in 3 out)	21900-300
ADV-HDMISDI-14	(1 in 4 out)	22000-300
ADV-DVISDI-12	(1 in 2 out)	22100-300
ADV-DVISDI-13	(1 in 3 out)	22200-300
ADV-DVISDI-14	(1 in 4 out)	22300-300
ADV-DPSDI-12	(1 in 2 out)	22400-300
ADV-DPSDI-13	(1 in 3 out)	22500-300
ADV-DPSDI-14	(1 in 4 out)	22600-300



HDMISDI units shown, DVISDI and DPSDI units available

General

Eon provides existing or customized Converter / Splitters that process HD-SDI, DVI, HDMI, DisplayPort, as well as analog (10Hz – 30MHz) video in fixed or switchable configurations. Please contact Eon's website for information and engineering staff about video products including rugged military splitter/amplifiers, cameras, monitors and recorders.

HDMI/DVI/DP - SDI Series:

The ADV-HDMI/DVI/DP-SDI series includes several different models, all qualified to MilSpec Power, Environmental and EMI requirements. Each model inputs one HDMI/DVI/DP digital video signal and converts and distributes to two or more outputs. Each output is equalized to unity gain with respect to the input signal level.

Supported Data Formats:

8-bit through 36-bit SDR ITU-R BT.656 Modes/4:2:2 Modes; 24-bit through 36-bit SDR 4:4:4 RGB Modes; 8-bit through 12-bit DDR ITU-R BT.656 DDR 4:2:2 Mode 0; 24-bit through 36-bit DDR 4:4:4 RGB.

Supported Video Resolutions:

HDMI in RGB mode: Standard PC resolutions up to UXGA (1600x1200) @ 60Hz HDMI: HDTV resolutions up to 1080p60, as defined by the HDMI 1.4a standard

Specifications:

Signal Input/Output: Differential (TMDS/CML)

Gain: Unity

Finish: (except for screws, base and connectors): Gold Chromate or CARC White Paint

Input Voltage: 16-40 VDC

Power Consumption: 3.5 - 10.0 Watts depending on configuration

Power Dissipation: 0.28 – 2.0 Watts depending on configuration

Weight: 1.0 - 2.5 lbs (nominal)

Qualification (Data available upon request):

Power: Mil-Std-704D, 1275

Environmental: Mil-Std-810G, DO-160G

Temperature:

Storage: -55° to +85°C

Functional: -45° to +71°C

Short Time Operating: +70°C

Altitude: Non-Pressurized Area, Cl 1 per MIL-E-5400T (0-70,000Ft)

Humidity: DO-160G, Cat B

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

Salt Fog: DO-160G, Cat S

Sand and Dust: DO-160G, Cat S

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

Endurance Sine on Random Vibration:

DO-160G, Cat R

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

Functional and Crash Safety Shock Testing:

DO-160G Category B Impulse, 6 G's Operational, 20 G's Crash

Safety. EMI: Mil-Std-461G

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

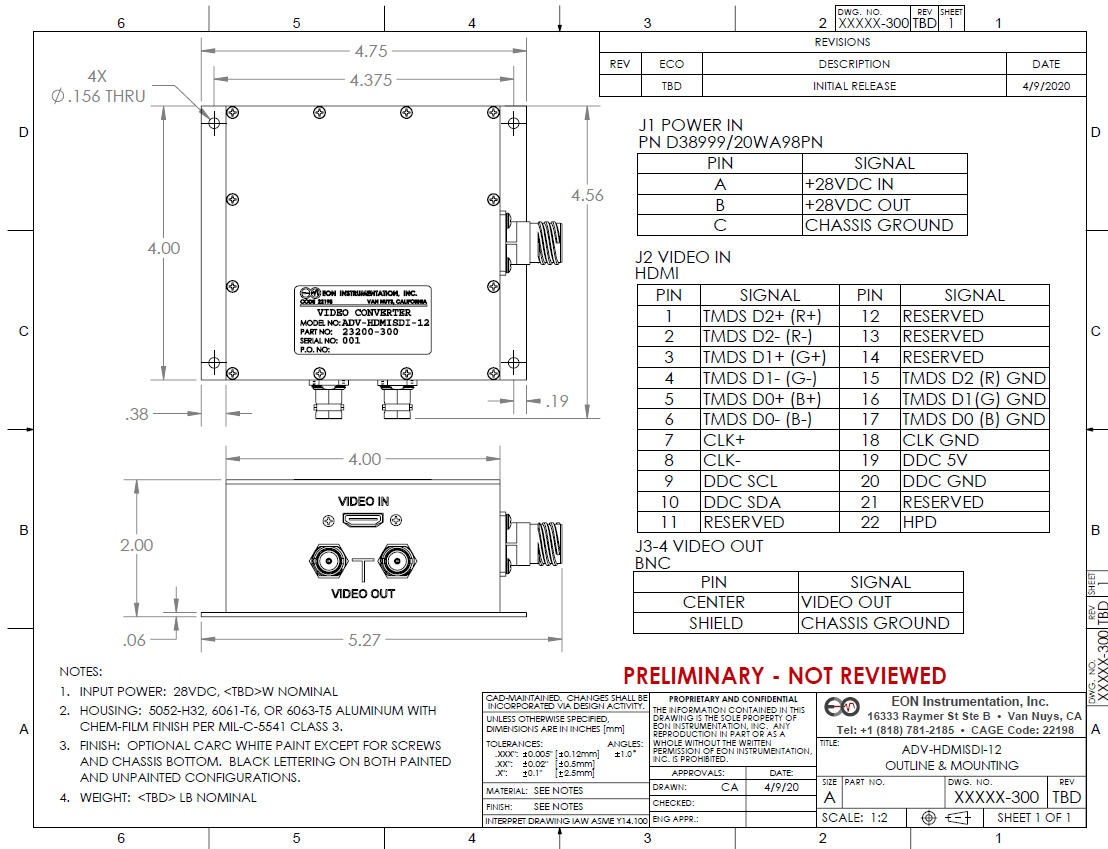
RF Radiated Susceptibility

Electrostatic Discharge, ESD

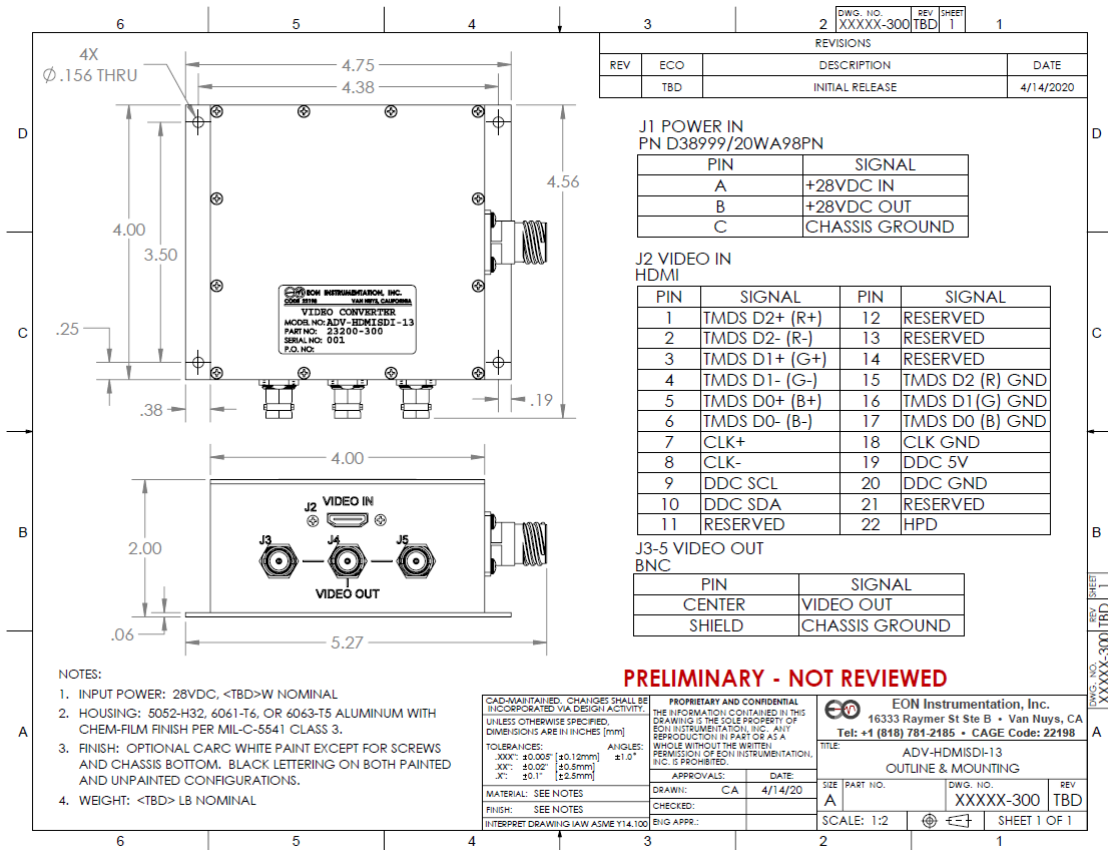
Lightning Induced Transient Susceptibility, LITS

MTBF: 82,000 – 96,000Hrs

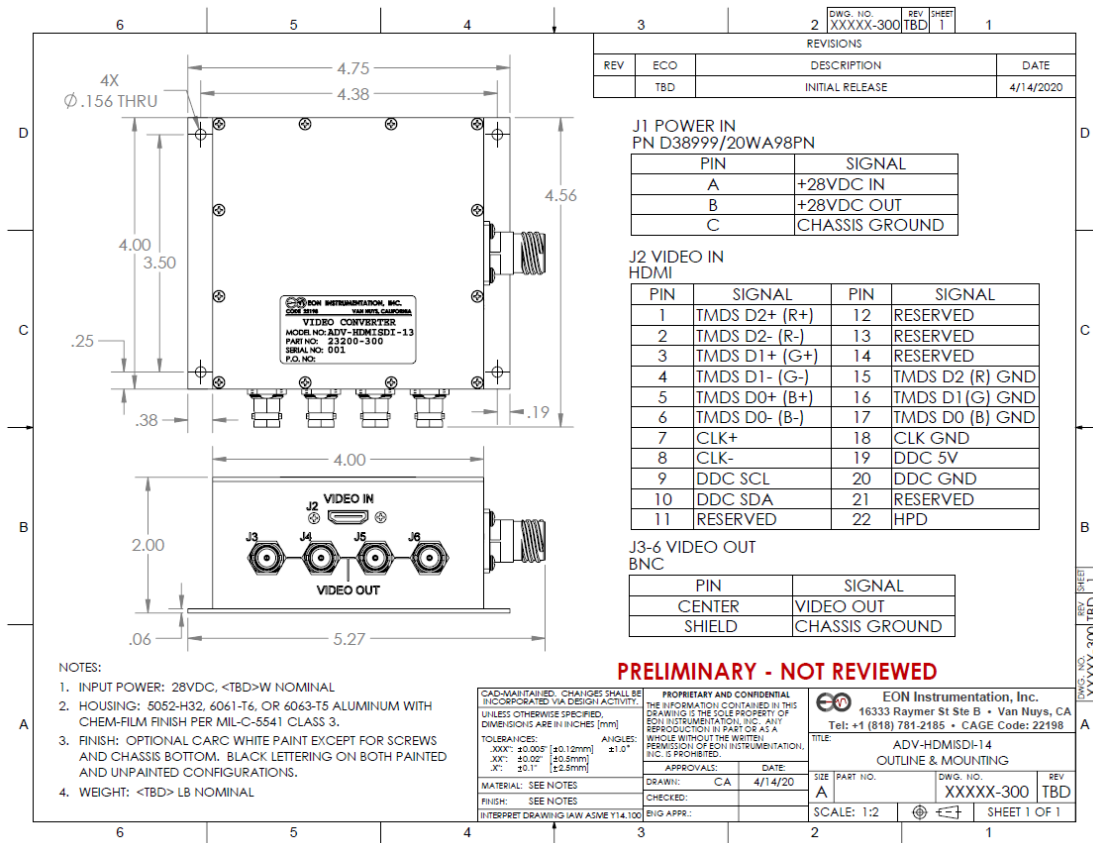
Outline and Mounting Drawings:



ADV-HDMISDI-12 Outline and Mounting Drawing



ADV-HDMISDI-13 Outline and Mounting Drawing



ADV-HDMISDI-14 Outline and Mounting Drawing

*HDMISDI units shown, DVISDI and DPSDI units available