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Product Data Sheet (03/22/2021)

SDI to CVBS Video Splitter/Converter

Model Numbers:
ADV-SDICVBS-12

Replaces:
ADV-SDINTSC-12
ADV-SDIPAL-12



General:

Eon provides existing or customized converters that process digital HD-SDI, DVID, HDMI, DisplayPort, as well as analog (10Hz – 30MHz) video (VGA, NTSC, PAL, RS343) inputs to digital or analog outputs in fixed or switchable configurations. Input/Output connectors can be MilStd, BNC, Rugged Commercial or other.

Please access Eon's website for information and engineering staff for other video products, including rugged military splitters/converters/selectors, cameras, monitors and recorders. Additional Eon product offerings are Interference Blankers, Rugged Power Supplies, Audio Systems and System Engineering/Custom Development.

SDI to SDI and NTSC or PAL

The ADV-DPSDI-12 is qualified to MilSpec Power, Environmental and EMI requirements. Power input of 16 – 40vdc is received through a MilStd D38999/20WA98PN connector. The ADV-SDICVBS-12 accepts up to 12GHz SDI video through a 75ohm BNC connector and distributes the SDI to one SDI output through 75ohm BNC and a second converted NTSC or PAL composite video to one output through a 75ohm BNC. The output analog signal (NTSC or PAL) is determined by the frame rate of the incoming video. Each output is equalized to unity gain with respect to the input signal level. The LRU provides Extended Display Interface Data (EDID) support. Other configurations are available such as 1SDI in; 1SDI out and 2,4,6 CVBS.

Configuration:

See the attached Outline and Mounting Drawings.

Specifications:

Signal Input/Output: SDI/ CVBS

Gain: Unity

Finish: (except for screws, base and connectors): Black Anodize

Input Voltage: 16-40 VDC

Power Consumption: <15 Watts nominal

Weight: 3.0 lb (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

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

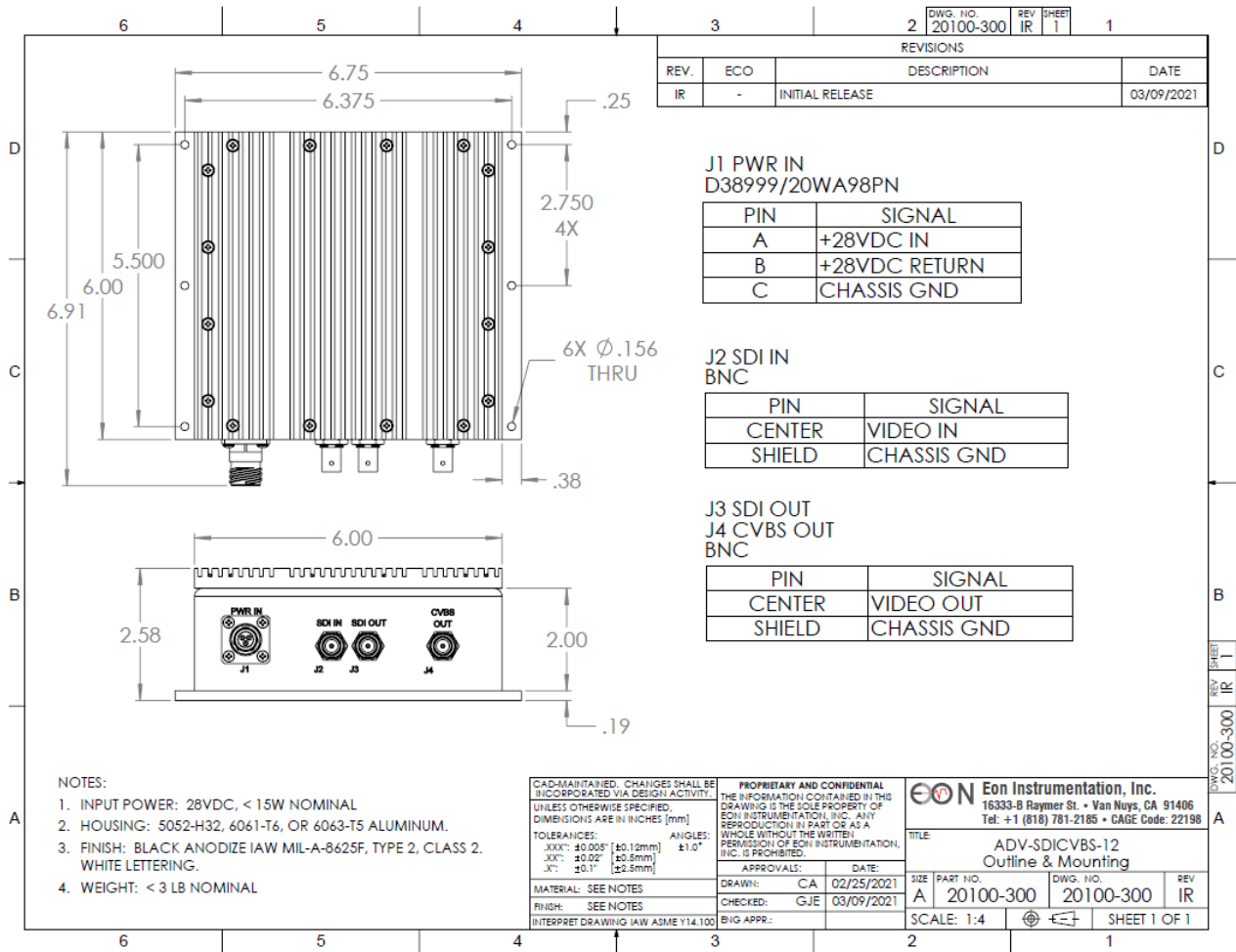
RF Radiated Susceptibility

Electrostatic Discharge, ESD

Lightning Induced Transient Susceptibility, LITS

MTBF: > 150,000Hrs operating

Outline and Mounting Drawing:



ADV-SDICVBS-12 Outline and Mounting Drawing