



15531 Cabrito Road  
Van Nuys, CA 91406

[www.eoninstrumentation.com](http://www.eoninstrumentation.com)

818-781-2185

3800 Oceanic Drive, #112  
Oceanside, CA 92056

## Product Data Sheet

(10/18/2017)

### Compact 3G-SDI Video Splitter/Amplifier

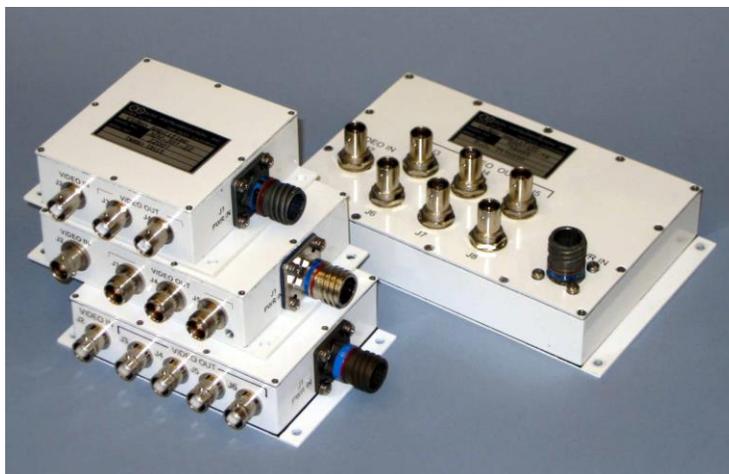
#### Model Numbers:

ADV-301-22D (1 in 2 out)

ADV-301-23D (1 in 3 out)

ADV-301-24D (1 in 4 out)

ADV-301-16D (1 in 6 out)



#### *General*

The ADV-301-xxD Compact series includes several different models, all qualified to MilSpec EMI, Environmental and Power requirements. Each model inputs one 3G-SDI digital video signal and distributes to two or more outputs. Each output is amplified to unity gain with respect to the input signal level. The Splitter/Amplifiers support 270Mbps, 1483/1485 and 2967/2970Mbps or automatic re-clocking rates. Power input is 18 – 36 VDC. Input and output BNC connectors are 75 ohms as specified in the table below.

Other Eon Splitter/Amplifier series are configured to process 3G and HD-SDI, DVID, HDMI, Display Port, as well as analog (10hz – 30Mhz) video in fixed or switchable configurations. Please contact Eon's website for information and who to contact about existing or customized video products including rugged military splitters, converters, selectors, cameras, monitors and recorders.

#### *Configuration*

See the four attached Outline and Mounting Drawings for the Standard Series.

#### *Specifications for Standard Compact Video Amp/Splitter Series*

Signal Input/Output: Single Ended

Gain: Unity

Finish (except for screws and connectors): CARC White Paint, Black Lettering  
Base Conformal Coat

Input Voltage: 18-36 VDC

Power Dissipation: 1.5-6.0 Watts depending on configuration

Weight: 0.6-1.5 lbs (nominal)

Meets (Qual by Similarity, Data available upon request):

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

*Environmental:* Mil-Std-810G

*Temperature:*

Storage: -55 to +85C

Functional: -15 to +55C

Short Time Operating: +70C

*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

### Digital Compact Series Summary

Name	Part Number	J1	J2	J3	J4	J5	J6	J7	J8
ADV-301-22D (1 in 2 out)	17900-300	D38999/ 20WA98PN	UCBBJE20-1	UCBBJE20-1	UCBBJE20-1	N/A	N/A	N/A	N/A
ADV-301-23D (1 in 3 out)	17500-300	D38999/ 20WA98PN	UCBBJE20-1	UCBBJE20-1	UCBBJE20-1	UCBBJE20-1	N/A	N/A	N/A
ADV-301-24D (1 in 4 out)	17700-300	D38999/ 20WA98PN	UCBBJE20-1	UCBBJE20-1	UCBBJE20-1	UCBBJE20-1	UCBBJE20-1	N/A	N/A
ADV-301-16D (1 in 6 out)	17800-300	D28999/ 20WA98PN	5222132-1	5222132-1	5222132-1	5222132-1	5222132-1	5222132-1	5222132-1

**NOTES:** Other compatible connector input and outputs and electrical configurations can be created

