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Van Nuys, CA 91406

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Oceanside, CA 92056

Product Data Sheet (07/06/2018)

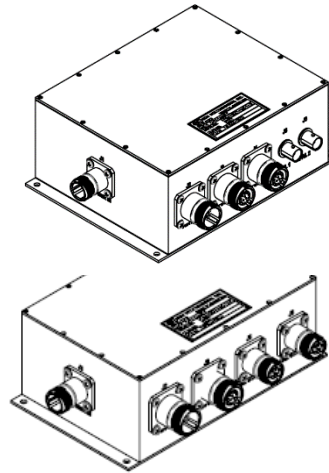
VGA Video Splitter/Amplifier Series

Model Numbers:

P/N:

ADV-301-VGA-3 16700-300
(1VGA in /2VGA out, 2PALcomposite out)

ADV-301-VGA-4 16800-300
(1VGA in/1VGA out, 2PALcomponent out)



General

The ADV-301-VGA-3, -4 is operated with nominal 28 VDC input power. Power consumption is 10W nominal and 12W maximum. Input and output impedance is 75 ohms. Weight is 2.2 lb nominal. All independent outputs are unity gain from video in. Different input and output impedances are available upon request.

Specifications for Standard Multiple Input Video Amplifier/Splitter Series

Gain: Unity

Input Voltage: 18-36 VDC, 28 VDC Nominal

Power Dissipation: 10 Watts (nominal)

Weight: 2.2 lb (nominal)

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

Power: Mil-Std-704A, (transient voltage/frequency, ground interference)

EMI: Mil-Std-461C and like tests from Mil-Std-461E

(CE03,CE06,CE07,CS02,CS06,CS11,RE02,RS02,RS03,RS06)

Temperature:

Operating: -40 to +70C

Storage: -54 to +85C

Shock:

Operating: 20 G's

Crash Safety: 40 G's

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

Humidity: Humidity, Cl 1 per MIL-E-5400T

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: +/-9 G's

Endurance Sine on Random Vibration:

MIL-STD-810E

0.103 G²/Hz (15-500Hz)

Sine Tones:

102Hz, 8.38G's Peak

204Hz, 7.45G's Peak

306Hz, 6.99G's Peak

408Hz, 6.97G's Peak

Operating: 3.0 hrs ea axis

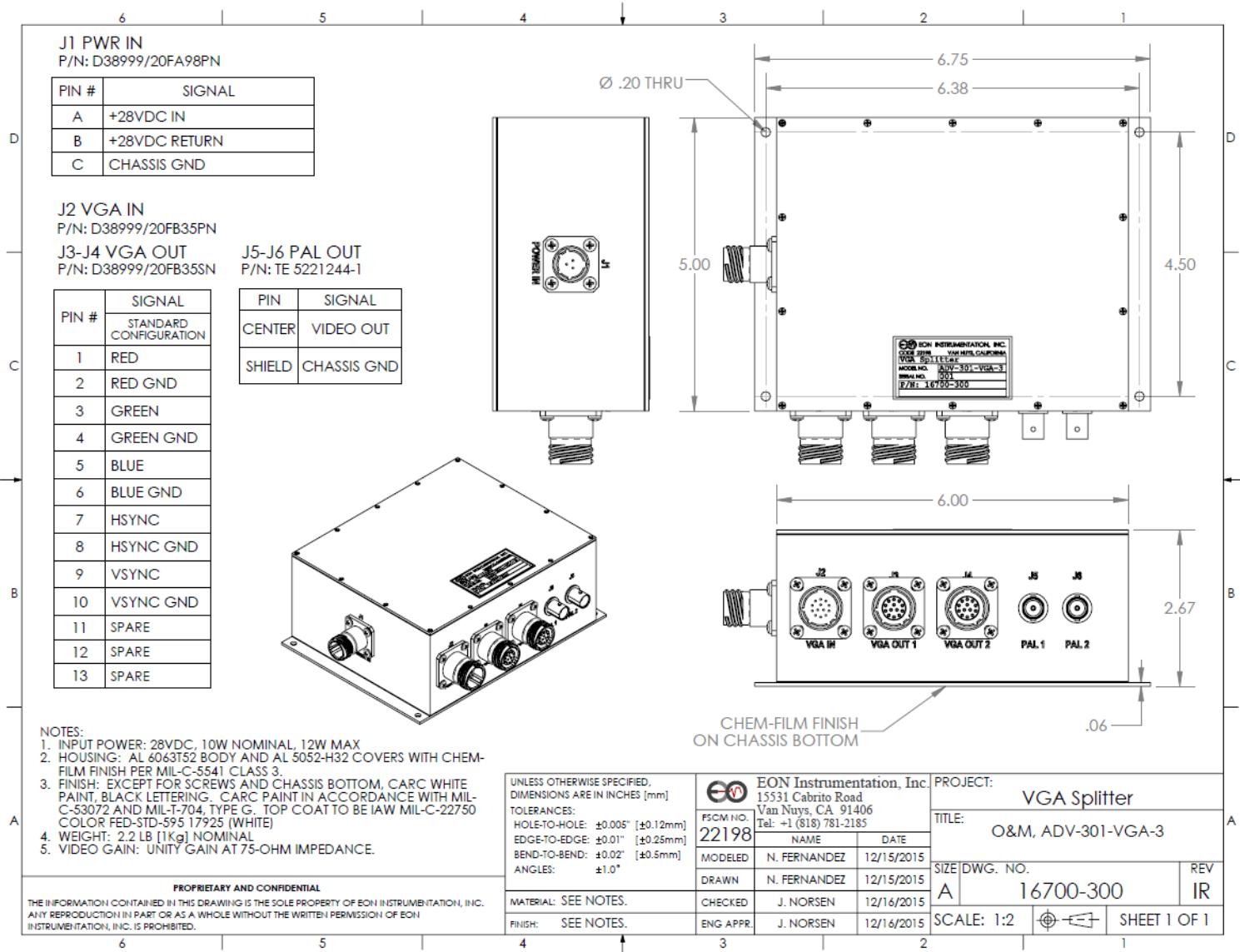
Explosive Atmosphere : By analysis

Fungus: By analysis

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

Rain: MIL-STD-810E Method 506.3, Procedure II (Drip)

MTBF: 40,000 op hrs



J1 PWR IN
P/N: D38999/20FA98PN

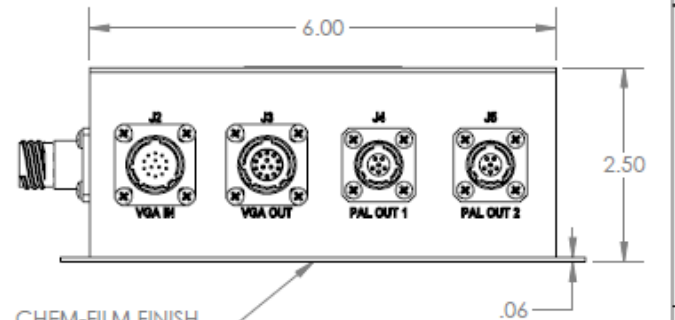
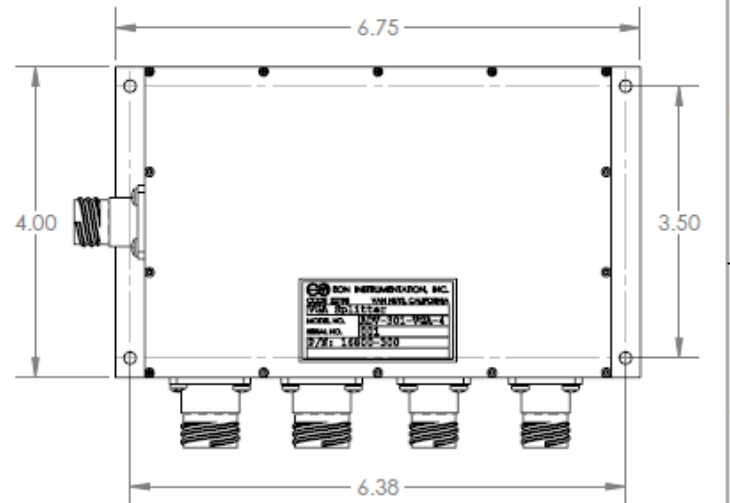
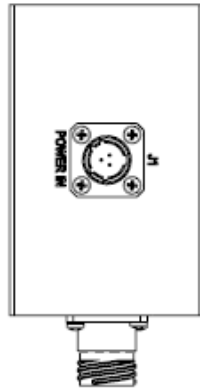
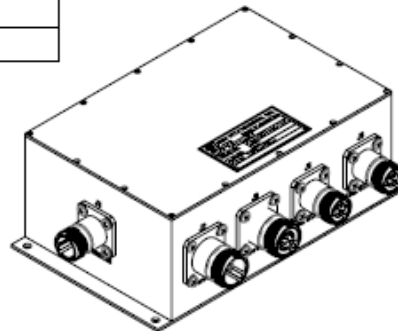
PIN #	SIGNAL
A	+28VDC IN
B	+28VDC RETURN
C	CHASSIS GND

J2 VGA IN
P/N: D38999/20FB35PN
J3 VGA OUT
P/N: D38999/20FB35SN

PIN #	SIGNAL	STANDARD CONFIGURATION
1	RED	
2	RED GND	
3	GREEN	
4	GREEN GND	
5	BLUE	
6	BLUE GND	
7	HSYNC	
8	HSYNC GND	
9	VSYNC	
10	VSYNC GND	
11	SPARE	
12	SPARE	
13	SPARE	

J5-J6 PAL OUT
P/N: D38999/20FA35SN

PIN #	SIGNAL	STANDARD CONFIGURATION
1	RED	
2	RED GND	
3	GREEN/SYNC	
4	GREEN GND	
5	BLUE	
6	BLUE GND	



CHEM-FILM FINISH
ON CHASSIS BOTTOM

NOTES:

- INPUT POWER: 28VDC, 10W NOMINAL, 12W MAX
- HOUSING: AL 6063T52 BODY AND AL 5052-H32 COVERS WITH CHEM-FILM FINISH PER MIL-C-5541 CLASS 3.
- FINISH: EXCEPT FOR SCREWS AND CHASSIS BOTTOM, CARC WHITE PAINT, BLACK LETTERING. CARC PAINT IN ACCORDANCE WITH MIL-C-53072 AND MIL-T-704, TYPE G. TOP COAT TO BE IAW MIL-C-22750 COLOR FED-STD-595 17925 (WHITE)
- WEIGHT: 2.2 LB (1Kg) NOMINAL
- VIDEO GAIN: UNITY GAIN AT 75-OHM IMPEDANCE.

PROPRIETARY AND CONFIDENTIAL

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UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES [mm]

TOLERANCES:
HOLE-TO-HOLE: $\pm 0.005"$ [$\pm 0.12\text{mm}$]
EDGE-TO-EDGE: $\pm 0.01"$ [$\pm 0.25\text{mm}$]
BEND-TO-BEND: $\pm 0.02"$ [$\pm 0.5\text{mm}$]
ANGLES: $\pm 1.0^\circ$

MATERIAL: SEE NOTES.

FINISH: SEE NOTES.



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ISCM NO.
22198

NAME	DATE
MODELED	N. FERNANDEZ 1/8/2016
DRAWN	N. FERNANDEZ 1/8/2016
CHECKED	J. WINCHESTER 1/8/2016
ENG APPR.	J. WINCHESTER 1/8/2016

PROJECT:

VGA Splitter

TITLE:

O&M, ADV-301-VGA-4

SIZE DWG. NO.

16800-300

REV

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SCALE: 1:2



SHEET 1 OF 1