 EON Instrumentation Inc.
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4/29/13

Product Data Sheet

Name: Video Amp/Splitter
Model Number: ADV-301-23H
Part Number: 14700-300

General

The ADV-301-23H is a one in, three out Video Amp/Splitter. The system is operated with nominal 28 VDC input power. Input and output impedance is 75 ohms. Video returns are isolated from chassis ground. Three independent outputs are unity gain from video input. Different input and output impedances are available upon request, and can be integral with chassis ground as well as different fixed gains from video input. The ADV-301-23H was also qualified over an extreme operating temperature range of -51 to +71C. In addition, it was qualified for 2 Hrs of immersion at 1 meter depth using protective dust covers.

Configuration

See attached Outline and Mounting Drawing

Specifications for Standard Unit

Signal Input/Output: Differential
Gain: Unity
Finish (except for screws and connectors): CARC White Paint, Black Lettering
     Base Conformal Coat
Input Voltage: 18-36 VDC
Power Dissipation: 0.6 Watts (nominal)
Weight: 1.0 lbs (nominal)
Meets (Qual by Similarity, or Qual Data available upon request):
     Power: Mil-Std-704, 1275
     EMI: Mil-Std-461
     Temperature:
          Operating: -51 to +71C (by qualification)
          Storage: -54 to +85C
     Immersion:
          MIL-STD-810G Method 512.5 (by qualification)
          2 Hrs at 1 meter depth (using protective caps on all connectors)

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
Rapid Decompression: MIL-STD-810E Method 500.3 para II-3.3 Procedure III
Rain: MIL-STD-810E Method 506.3, Procedure II (Drip)

Outline and Mounting Drawing