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## VSA-1616 Data Sheet (10-23-2018)

Model Number	Part Number
VSA-1616	19900-300



*VSA-1616 pictured*

### **General**

The VSA-1616 unit receives sixteen (16) single-ended signal inputs (BNC), and provides sixteen (16) single ended outputs (BNC). The output is chosen via a DB-9 connector using RS-232 connection. The system will be powered by standard 28-Volt DC power.

### **Configuration**

See the attached Outline and Mounting Drawing for the dimensions and mounting locations. The VSA-1616 unit shall be housed in a 6" x 8.75" x 1.12" exterior metal material: 0.188" thick AL alloy, 6063-T52 or equivalent. For the case and 0.063" thick AL alloy, 5052-H32 or equivalent for the cover and mounting plate.

### **Specifications:**

*Signal Input/Output:* Single-ended

*Gain:* Unity

*Finish:* (except for screws and connectors): Gold Chromate chem-film, white MIL spec paint with black silkscreen

*Input Voltage:* 28VDC

*Power Consumption:* 2.5 Watts nominal

*Input Signal Amplitude:* 0.5 to 5.0V peak-to-peak

*Bandwidth:* Flat within  $\pm 0.4$ dB from 30Hz to 30.0MHz at 1V peak-to-peak output, gain = 1

*Noise:* 0.01 peak-to-peak at 1V peak-to-peak output, gain = 1

*Harmonic Distortion:* Less than 2.5% at 1V peak-to-peak output, gain = 1

*Ripple:* Less than 1.5V peak-to-peak

*Reverse Polarity Protection:* Provided

50 VDC Transient @ 100mSec

*Weight:* 3.5lbs (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

Short Time Operating: +85°C

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

*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

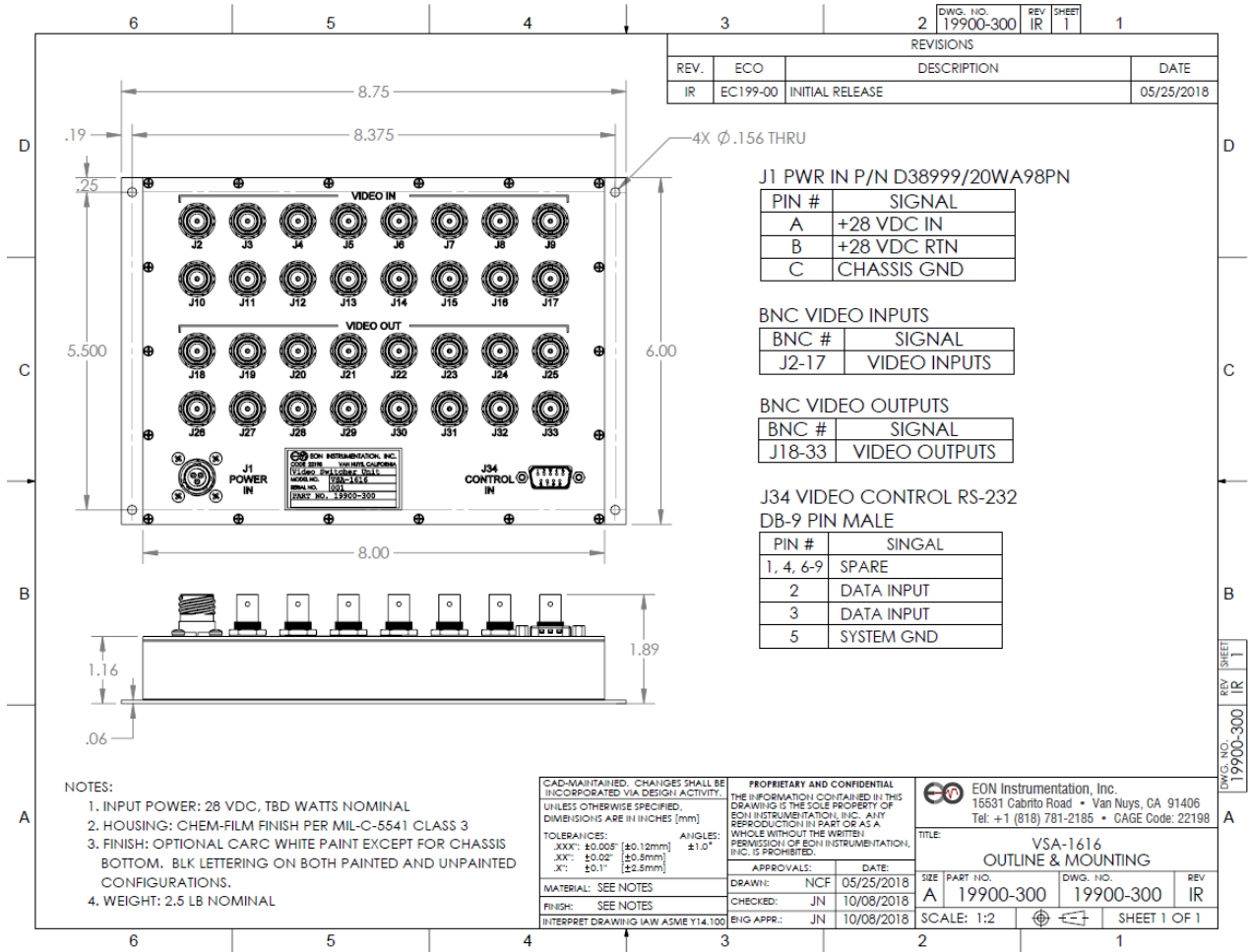
RF Radiated Susceptibility

Electrostatic Discharge, ESD

Lightning Induced Transient Susceptibility, LITS

***MTBF:*** 65,000 Hrs

# Outline and Mounting Drawings:



VSA-1616 Outline and Mounting Drawing