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VSA-81 Data Sheet (10-23-2018)

Model Number	Part Number
VSA-81	19500-300



VSA-81 pictured

General

The VSA-81 unit receives eight single-ended signal inputs (BNC), and provides one single ended output (BNC). The output is chosen via a DB-9 connector using BCD input. 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-81 unit shall be housed in a 4" x 6.75" 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: 1 Watts nominal

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

Bandwidth: Flat within ± 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: 2lbs (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

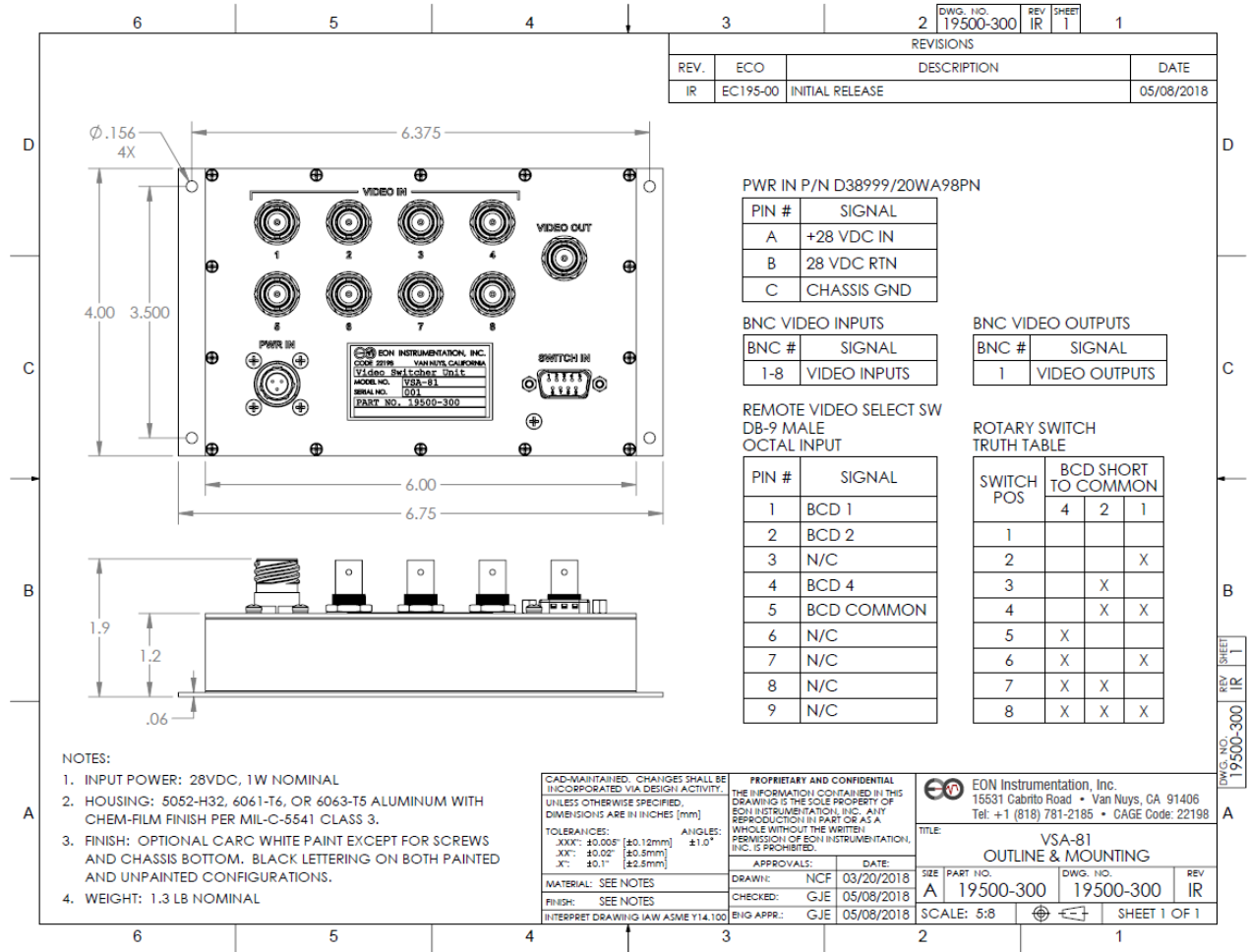
RF Radiated Susceptibility

Electrostatic Discharge, ESD

Lightning Induced Transient Susceptibility, LITS

MTBF: 82,000 Hrs

Outline and Mounting Drawings:



VSA-81 Outline and Mounting Drawing