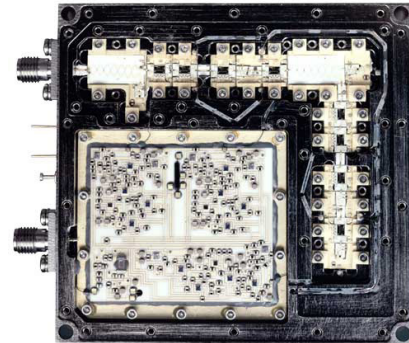


### KEY PERFORMANCE FEATURES

- Fast Rise and Fall Times
- Excellent Linearity
- Computer Tuned and Tested
- Production Ready
- EAR 99 Export Classification

### PRODUCT DESCRIPTION

AKON introduces a complete line of 70 - 75 dB dynamic logging range ERDLVAs. The products operate on a variety of bands between 0.5 to 18 GHz frequency range. AKON's ERDLVAs have excellent log slope linearity, temperature stability and fast rise and fall times. This new line comes in a compact ruggedized packaging.



AKON products are designed to withstand the demanding environments of Military, Space and Industrial applications. Our compact and ruggedized products are designed to handle stringent mechanical shock/vibrations, temperature cycling, altitude and temperature extremes.

Reliability is a key feature of AKON products and to ensure this we perform ESS testing on all of our products. AKON offers an off-the-shelf screening option called its "H" series, per Mil-STD-883 level B that is available on all of its RF & Microwave Components. **For custom electrical, mechanical, and screening options, please contact AKON Sales: sales@akoninc.com (or) 408-432-8039.**

### SPECIFICATIONS

Parameter	A15-MH082	A15-MH094	A15-MH095	A15-MH096
Frequency Range (GHz)	0.5 - 2	2 - 6	6 - 18	2 - 18
T.S.S. (dBm)	-73	-73	-70	-69
Logging Range (dBm)	-70 to +4	-71 to +4	-68 to +5	-67 to +5
Frequency Flatness (dB)	+/- 1.7 (max) +/- 1.0 (typ)	+/- 1.5 (max) +/- 1.0 (80% of band)	+/- 2.0 (max) +/- 1.4 (80% of band)	+/- 2.75 (max) +/- 1.75 (80% of band)
VSWR	2.0:1	2.0:1	2.0:1	2.0:1
Log Linearity (dB)	+/- 1.3 (max) +/- 1.0 (typ)	+/- 1.0 (max) +/- 1.0 (80% of band)	+/- 1.2 (max) +/- 1.0 (80% of band)	+/- 1.35 (max) +/- 1.0 (80% of band)
Temperature Variation (dB)	+/- 1.0	+/- 1.0	+/- 1.25	+/- 1.25
Log Slope (mV/dB) For Linearity Measurement	50	50	75	50
Rise Time	20 nS (max) 15 nS (max)	20 nS (max) 15 nS (typ)	20 nS to 100 μs Available	20 nS (max) 15 nS (typ)
Fall Time (nS)	150	150	20 - 100 μ sec	150
Recovery Time (nS) (90% to +/- 1.0 dB of Baseline)	200 250 (max)	200 250 (max)	200 250 (max)	200 250 (max)
Propagation Delay (nS) (50% RF to 10% Video)	20(max) 15 (typ)	18 (max) 15 (typ)	18 (max) 15 (typ)	18 (max) 15 (typ)

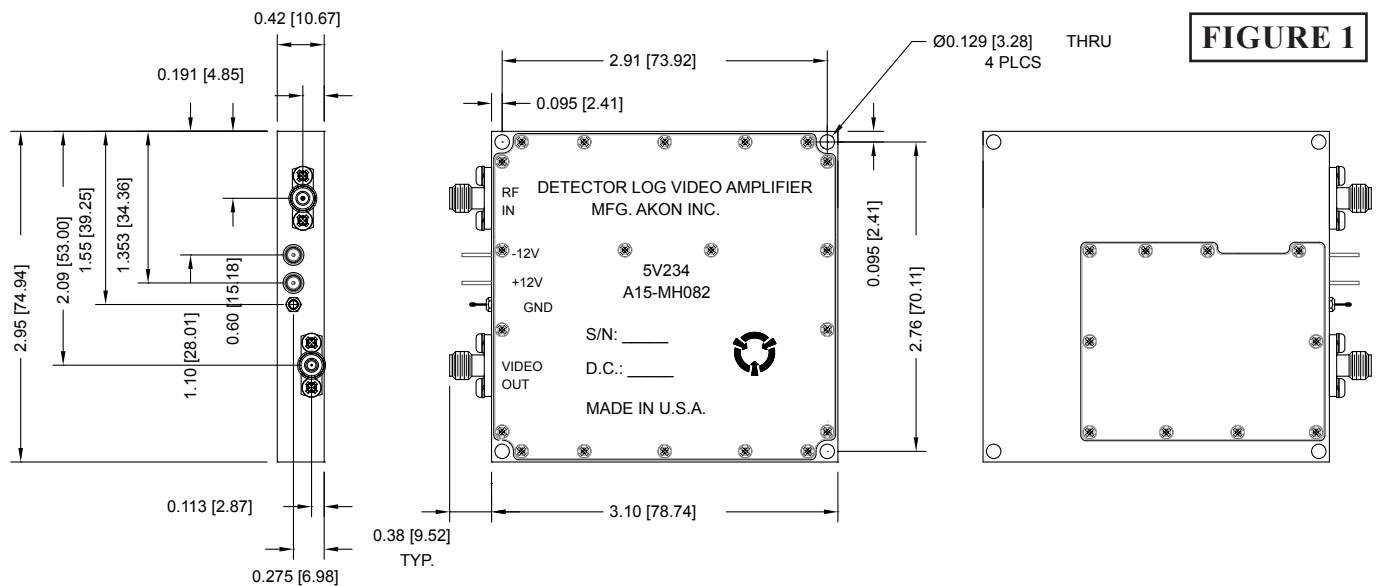
AKON, Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. All products are measured in 50-ohm system, over a temperature Range of -20° to +85° C.

### SPECIFICATIONS (CON'T)

Parameter	A15-MH082	A15-MH094	A15-MH095	A15-MH096
Power Supply Current (mA)				
+12 (VDC)	+500	+550	+550	+550
-12 (VDC)	-150	-150	-150	-150
Coupling	DC	DC	DC	DC
Video Load (ohms)	93 +/- 1	93 +/- 1	93 +/- 1	93 +/- 1
Size (Inches)	Figure 1	Figure 2	Figure 3	Figure 4
Operating Temperature (°C)	-20 to +85	-20 to +85	-20 to +85	-20 to +85

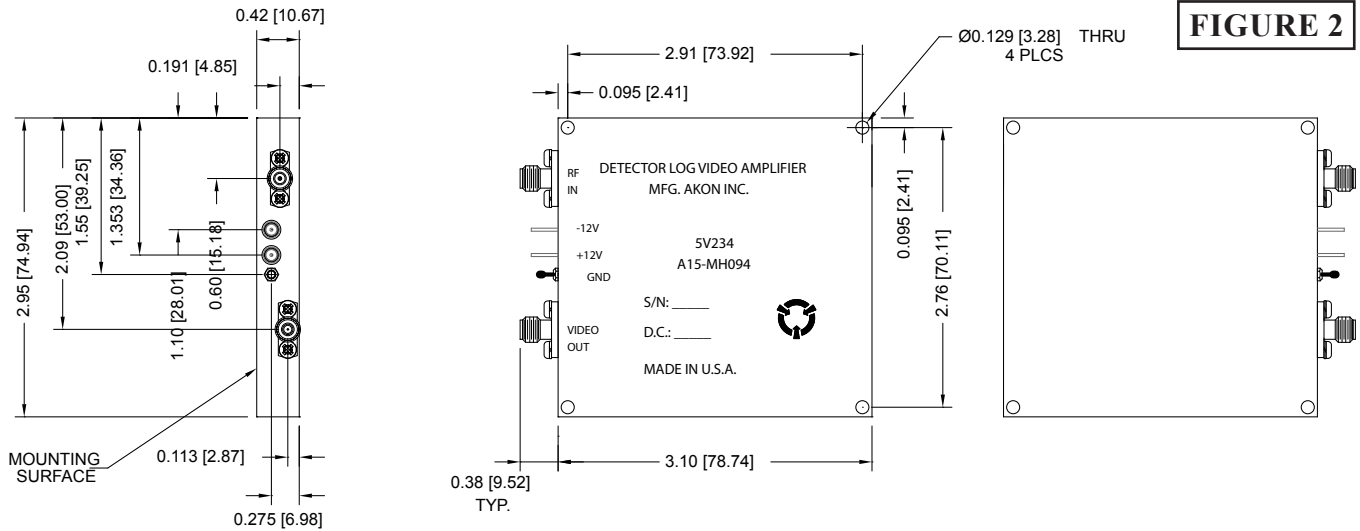
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### OUTLINE DRAWINGS

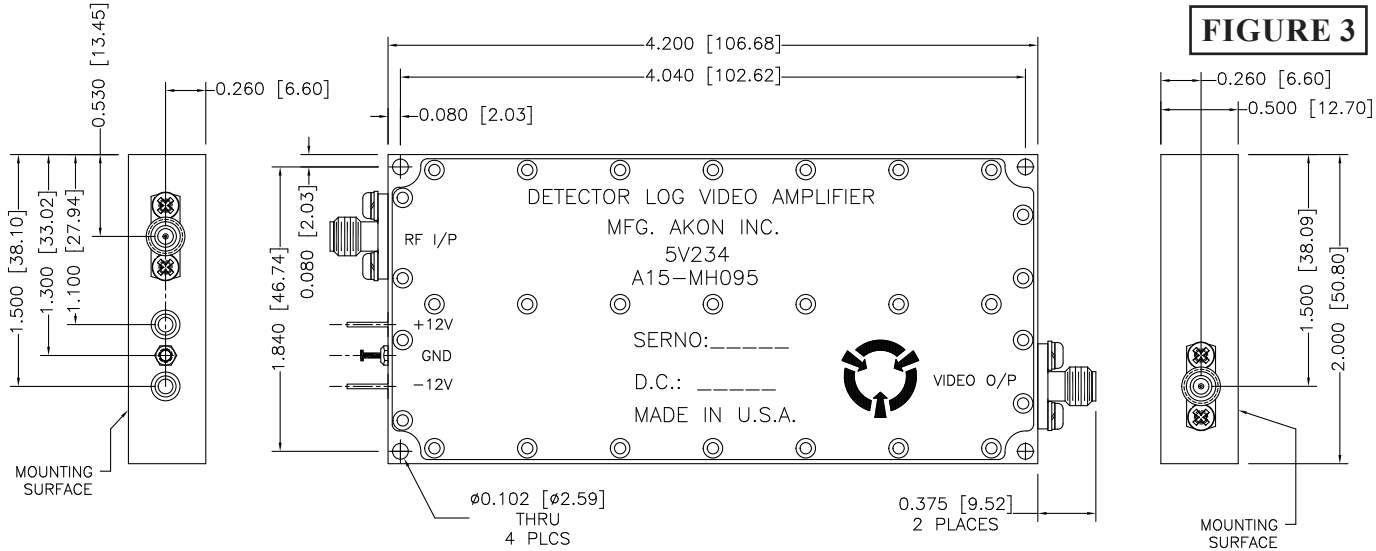


### OUTLINE DRAWINGS

**FIGURE 2**



**FIGURE 3**



### OUTLINE DRAWINGS

**FIGURE 4**

