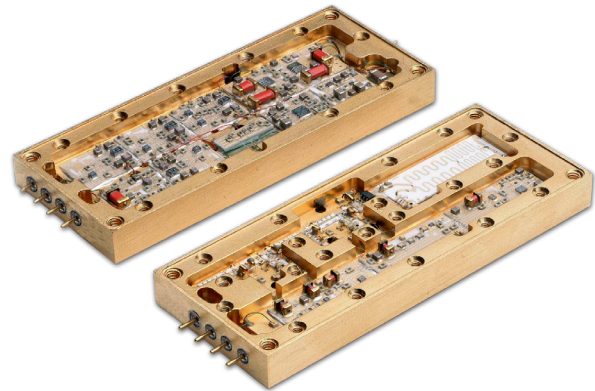


## KEY PERFORMANCE FEATURES

- Wide Dynamic Range Coverage
- Low DC Power Consumption
- Fast Rise and Fall Times
- Excellent Absolute Accuracy
- Compact Ruggedized Package
- EAR 99 Export Classification



## PRODUCT DESCRIPTION

**AKON** has developed a new series of Log IF Amplifiers that operate over a variety of bands between 0.5 to 2 GHz frequency range. This new line offers excellent linearity over a dynamic logging range of dB and comes with a compact ruggedized package.

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:

Model Number	A17-OH010	A17-1H011	A17-MH012
Frequency Range (GHz)	0.5 - 1	1 - 2	0.5 - 2
T.S.S. (dBm)	-72	-72	-72
Logging Range (dBm)	-65 to 0	-65 to 0	-65 to 0
Frequency Flatness (dB)	+/- 1.0	+/- 1.0	+/- 1.25
Log Linearity (dB)	+/- 1.0	+/- 1.0	+/- 1.0
Temperature Variation (dB)	+/- 1.0	+/- 1.0	+/- 1.0
Rise Time (nS)	10	10	10
Recovery Time (nS) (90% to +/-1.0 dB of baseline)	60	60	60
Propagation Delay (nS) (50% RF to 10% Video)	10	10	10
Log Slope (mV/dB)	15	15	15
Power Supply Current (mA)			
+15 (VDC)	+300 (typ)	+300 (typ)	+300 (typ)
-15 (VDC)	-115 (typ)	-115 (typ)	-115 (typ)
Coupling	DC	DC	DC
Operating Temperature (°C)	-40 to +85	-40 to +85	-40 to +85
VSWR	2.0:1	2.0:1	2.0:1
Size	Figure 1	Figure 1	Figure 1

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 -54° to +85° C.

**Note:** All dimensions are specified in inches (mm)

### OUTLINE DRAWING:

**FIGURE 1**

