

## KEY PERFORMANCE FEATURES

- Wide Frequency Range Coverage 2-18 GHz
- Excellent Log Linearity over -70 to 0 dbm
- Fast Rise Time of  $\leq 10$  ns
- Fast Recovery Time of  $\leq 60$  ns
- Compact and Ruggedized Packaging
- EAR 99 Export Classification



## PRODUCT DESCRIPTION

AKON's new Compact RF & Microwave High Speed SDLVAs operate over a frequency range of 2-18 GHz range from -70 to 0 dBm input power range. These new Compact RF & Microwave High Speed SDLVAs utilize the latest thin-film microelectronics hybrid technology, making it well suited for harsh military, industrial & space markets.

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-MH243	A15-MH244	A15-MH245
Frequency Range (GHz)	2 - 6	6 - 18	2 - 18
T.S.S. (dBm)	-73	-73	-73
Logging Range (dBm)	-70 to 0	-70 to 0	-70 to 0
Frequency Flatness (dB)	+/- 1.5	+/- 2.0	+/- 2.0
VSWR	2.0:1	2.0:1	2.0:1
Log Linearity (dB)	+/- 1.0	+/- 1.0	+/- 1.0
Log Accuracy (dB) (over temperature at a given frequency)	+/- 2.5	+/- 3.0	+/- 3.0
Log Slope (mV/dB) For Linearity Measurement	25	25	25
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
Power Supply Current (mA)			
+12 (VDC)	500	500	500

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

## SPECIFICATIONS (CON'T):

Parameter	A15-MH243	A15-MH244	A15-MH245
-12 (VDC)	150	150	150
Coupling	DC	DC	DC
Video Load (ohms)	93 +/- 1	93 +/- 1	93 +/- 1
Size (Inches)	2.5" x 1.8" x 0.5"	2.5" x 1.8" x 0.5"	2.5" x 1.8" x 0.5"
Operating Temperature (°C)	-20 to +85	-20 to +85	-20 to +85

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## OUTLINE DRAWING

