

KEY PERFORMANCE FEATURES

- 18 - 40 GHz
- -63 TO +2 dBm Video Log Range
- 15 nS Rise Time (max)
- +/- 1.5 dB Video Log linearity
- 40 nS Fall Time(typ)
- 10 nS Delay Time
- Optional Limited RF Output
- EAR 99 Export Classification



PRODUCT DESCRIPTION

AKON has developed a new DLVA that operates from 18 to 40 GHz frequency range. This new DLVA has 65 dB dynamic logging range with a log accuracy of +/- 2 dB over 80% of the band. AKON's DLVA has a fast rise time of 10 nS and a 40 nS fall time.

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-MCH212
Frequency Range (GHz)	18 - 40
T.S.S. (dBm)	-67 (nom)
Logging Range (dBm)	-63 to +2
Frequency Flatness (dB)	+/- 2.5 (max) @ 25°C +/- 3.0 (max) over temp
VSWR	2.3:1
Log Linearity (dB)	Deviation from Best Fit Straight Line: +/- 1.5 (max) @ 25 +/- 1.0 (80% band) Over temperature: +/- 2.0 (max) +/- 1.5 (80% band)
Log Slope (mV/dB) For Linearity Measurement	For Linearity: 25 +/- 1.0 mV/dB For Log Accuracy: 25 mV/dB
Rise Time (nS)	15 (max) 10 (typ)
Fall Time (nS)	60 (max) 40 (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 +71° C.

Note: All dimensions are specified in inches (mm)

SPECIFICATIONS (CON'T):

Parameter	A15-MCH212
Power Supply Current (mA)	
+12 (VDC)	600
-12 (VDC)	150
Coupling	DC
Video Load (ohms)	93 +/- 1
Operating Temperature (°C)	-20 to +71 (Extended Temperature Range Available)
Size	Figure 1

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OUTLINE DRAWING

FIGURE 1

