

KEY PERFORMANCE FEATURES

- Wide Frequency Range
- Excellent Log Linearity
- Low DC Power
- MIL Screened & Hermetically Sealed
- Computer Tuned and Tested
- Size: 2.2" x 1.5" x 0.4"
- EAR 99 Export Classification



PRODUCT DESCRIPTION

AKON introduces a DLVA with dynamic logging range of 40 dB covering 1.4 to 21.5 GHz frequency coverage. This DLVA has excellent log slope variation that results in excellent absolute accuracy. This new product offers performance at low DC power consumption. The product was designed with thin-film/thick-film hybrid technology, then packaged into a small hermetic enclosure.

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-ML074 |
|---|--|
| Frequency Range (GHz) | 1.4 - 21.5 |
| T.S.S. (dBm) | -52 |
| Logging Range (dBm) | 52 |
| Frequency Flatness (dB) | +/- 1.5 dB @ 80% Band +/- 1.75 dB @ 90% Band +/- 2.0 dB @ 100% (max) |
| VSWR | 3.0:1 |
| Log Linearity (dB) | +/- 0.75 dB (typ); +/- 1.0 dB (max) |
| Log Slope (mV/dB) For Linearity Measurement | 50 |
| Rise Time (nS) | 30 (max) any pulse width |
| Fall Time (nS) | 250 |
| Recovery Time (nS) (90% to +/- 1.0 dB of Baseline) | 300 (typ) 500 (max) |

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 -40° to +85° C.

Note: All dimensions are specified in inches (mm)

SPECIFICATIONS (CON'T):

| Parameter | A15-ML074 |
|---|--------------------|
| Propagation Delay (nS) (50% RF to 10% Video) | 60 (typ) |
| Power Supply Current (mA) | |
| -9 (VDC) | 45 |
| +9 (VDC) | 120 |
| Coupling | DC |
| Video Load (ohms) | 93 +/-1 |
| Size (Inches) | 2.2" x 1.5" x 0.4" |
| Operating Temperature (°C) | -40 to +85 |

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OUTLINE DRAWING

