



LINK ELECTRONICS, INC.

VARIABLE DELAY VIDEO AMPLIFIER MODEL IEC-754



FEATURES

- ◆ Four Outputs
- ◆ Delay Trim Adjustment
- ◆ 475 nS Delay, Standard
- ◆ Video Bandwidth 32 MHZ
- ◆ Optional delay up to 975 nS
- ◆ Cable Equalization, 1000 Feet
- ◆ Input, Differential Loop Through

The IEC-754 Video Delay DA reflects the latest state of the art in engineering. The IEC-754 is one of the most versatile video delay DA's on the market, and provides outstanding performance. The delay is continuously variable from 30 nS to 475 nS.

The IEC-754 offers transparent transmission, with -3dB frequency response to 32 MHZ, and -3dB to 16 MHZ with maximum delay. A differential input is standard in the IEC-754, and provides more than 80 dB of common mode rejection.

The versatility of the IEC-754 is illustrated by its choice of built-in features. An internal spare 32 pin IC socket provides for additional optional delay that increases the delay by 200, 300, 400, or 500 nS. Cable equalization is adjustable from the front panel with a calibrated control that compensates for loss in coax cable for up to 1000 feet of Belden 8281. A delay trim on the front panel allows matching of signal propagation delays with a range of ± 5 ns. The IEC-754 is a notable addition to the Link Electronics well recognized "700" series products.

LINK ELECTRONICS, INC. ◆ 2137 Rust Avenue ◆ Cape Girardeau, MO 63703-7668
Phone 573 334 4433 ◆ FAX 573 334 9255

MODEL IEC-754 Variable Delay Video Amplifier

SPECIFICATIONS

INPUT:

Video Level: 1.0V p-p \pm 3dB
Impedance: > 100K Ω , bridging
Common Mode Range: 16Vp-p (60 Hz)
Maximum DC In: \pm 5 VDC
CMRR: >80dB @ 60Hz

Tilt: <0.4%
Hum: >70dB, below 1.0V p-p
Differential Phase: ... <0.1°, 10% to 90% APL
Differential Gain: ... <0.1%, 10% to 90% APL

OUTPUTS:

Number: Four each, BNC
Level: Unity Gain, \pm 3dB

FRONT PANEL CONTROLS:

Gain Control: \pm 3dB continuous from unity
Cable Equalizer: Equalizes up to 1000 Ft
Propagation Delay Trim: \pm 5ns

AMPLIFIER PERFORMANCE:

Frequency Response, No Delay:
..... 0.5dB to 18 MHz
..... -1 to 25 MHz
..... -3dB to 32 MHz

Frequency Response, Maximum Delay:
..... \pm 0.5dB to 10 MHz
..... -1 to 12 MHz
..... -3dB to 16 MHz

Output Isolation: >-40dB at 3.58 MHz
Return Loss: 40dB to 6 MHz
High Freq. Overshoot: <0.4%
Ringing: <0.4%

ENVIRONMENTAL:

Temperature: 0° to 50°C, ambient
Humidity: 10% to 90% non-condensing

POWER:

DC Voltage: +15 VDC (100 mA)
..... -15 VDC (100 mA)
Power: 7.2 watts

MECHANICAL:

Height: 1"
Width: 5.5"
Depth: 9.25"
Weight: 2 lbs. 9oz



IEC-754 Rear Panel



Model PRT-700

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