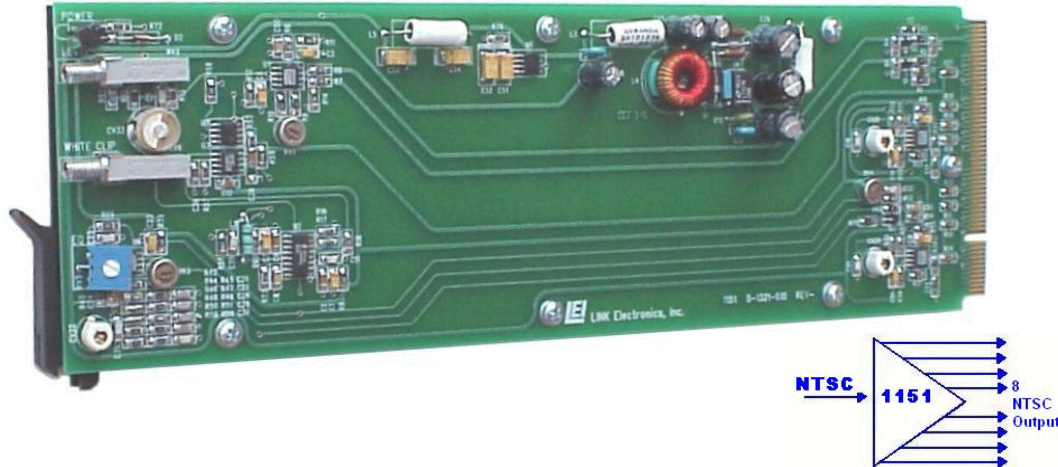




**LINK ELECTRONICS, INC.**

## ANALOG WHITE CLIP VIDEO DA 1 X 8

### DigiFlex 1151



#### FEATURES

- ◆ White Clip
- ◆ Op Amp. Technology
- ◆ Eight Outputs, 7 Looping
- ◆ DC Coupled
- ◆  $\pm 3\text{dB}$  Gain
- ◆ 100 MHz Bandwidth
- ◆ Diff. Gain and Phase 0.1

The DigiFlex 1151 is a state-of-the-art analog video distribution amplifier with cable equalization and white clip. The 1151 provides high-performance analog video distribution in the LINK DigiFlex 1000 Frame. The advantage is obvious: both analog and digital distribution amplifiers can operate side-by-side in a single frame!

Utilizing the latest CMF Op-Amp technology, the 1151 combines wide bandwidth, low noise, and low power consumption. The video path is truly transparent, with differential phase and gain errors of  $<0.1^\circ$  and  $<0.1\%$ , respectively. Video signal-to-noise ratio exceeds 65dB. Frequency response is exceptionally flat beyond 40MHz and features a gentle roll-off to -3dB at 100MHz—perfect for analog HDTV. Eight outputs are provided on it's companion rear cell, 1011. The 1011 has only 7 outputs if the input is specified looping.

#### Mounting Frame Options

- 1000 - Single Power Supply, Holds 11 Modules
- 1000/2 - Dual Power Supply, Holds 10 Modules
- 7200 - Mounting Frame, Holds 1 Module

DC-coupled differential input is a standard feature, providing high common-mode rejection. Cable equalization is adjustable from the front card edge and can compensate for loss in coax cable up to 1000 feet of Belden 8281. Clamp is referenced to back porch. White clip is adjustable from the front card edge with a range of 100 IRE units  $\pm 30$  IRE units.

The attention to detail in the design of the 1151 extends to the power supply, which features a simple switching regulator. While slightly more complex than a linear supply, this offers the highest possible efficiency. In addition, this unit is backed by a ten-year warranty including parts and labor

Two convenient mounting frames are available for the DigiFlex series products, 1000 and 7200.

# DIGIFLEX 1151

## White Clip Video Distribution Amplifier

**INPUT:**

Video Level: ..... 1.0 Vp-p±3dB  
 Impedance: ..... 75 ohms , bridging  
 Common Mode Range: ..... 5Vp-p  
 Maximum DC In: ..... ±5 VDC  
 CMRR: ..... 70dB  
 Return Loss, Non Looping Input: ..... >45dB @ 5 MHz  
 Return Loss, Looping Input: ..... >35dB @ 5 MHz

**OUTPUTS:**

Number: ..... Eight (8), BNC; option 7 outputs with looping  
 Level: ..... Unity Gain ±3dB

**AMPLIFIER PERFORMANCE:**

Frequency Response: ..... ±0.5dB to 55 MHz  
 ..... ±1dB to 60MHz  
 ..... 3.0dB to 100 MHz  
 Differential Gain: ..... <0.1%, 10% to 90% APL  
 Differential Phase: ..... <0.1°, 10% to 90% APL  
 Clamping Action: ..... 40dB for 10% to 90% APL  
 ..... 6dB @60Hz  
 DC Gain Stability: ..... 0.2%  
 Signal-to-Noise: ..... >65dB  
 Hum: ..... >70dB, below 1.0V p-p  
 Output Isolation: ..... > 45dB at 3.58 MHz  
 Return Loss: ..... 50dB to 5 MHz  
 Tilt: ..... <0.4%  
 Ringing: ..... <0.4%  
 High Freq. Overshoot: ..... <0.4%  
 Coupling: ..... DC Servo, Average DC output =0  
 Harmonic Distortion: ..... SC @ 3.58Hz, 2Vp-p  
 ..... Less than 0.4% ( 48dB)

**FRONT CONTROLS:**

Gain Control: ..... ±3dB continuous from unity  
 White Clip: ..... 100 IRE ±30 IRE Units  
 Cable Equalizer: ..... Equalizes up to 1000 Ft

**ENVIRONMENTAL:**

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

**POWER:**

DC Voltages:  
 +5 VDC: ..... 50mA  
 -5 VDC: ..... 50mA

**MECHANICAL:**

Height: ..... 3.5 inches  
 Width : ..... 1 Inch  
 Depth: ..... 10 Inches  
 Weight: ..... 7.1 Ounces  
 Mounting: ..... Mounts in 1000 or 7200



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