# **HI\*DEF Video Splitter**







The HI\*DEF<sup>™</sup> Video Splitter is an extremely high performance 1-input, 2-output analog video distribution amplifier designed to split a single RGBHV signal to two paths. The HI\*DEF Video Splitter is intended for applications that require absolutely no signal degradation when one video source must be sent to two destinations. This device has separate amplification circuitry for each output, avoiding a signal degradation problem commonly encountered when splitting a video signal. The amplifier circuitry within the HI\*DEF Video Splitter provides 75 Ohm termination to avoid reflections and a fast slewing amplifier to maintain a quick settling time. Both of these are imperative for maintaining proper video signal integrity.

A typical application for the HI\*DEF Video Splitter is for the testing and verification of VGA-based computer systems. Users may require the video source to be simultaneously input to a Foresight Imaging board for acquisition and to another monitor for display. Additionally, any time that a video signal has to travel a considerable distance and be split, the HI\*DEF Video Splitter may be necessary to maintain signal quality. With the HI\*DEF Video Splitter, the signal is buffered and then amplified back to the proper video level without altering the signal integrity to either of the two target devices.

+/-5 volts

# **Specifications**

#### **RGB Inputs/Outputs**

- Maximum input voltage
- Input/Output Impedance
- Gain
- Amplifier Settling Time
- Overshoot
- Differential Gain
- Differential Phase
- Output short to ground
- 3 dB Cable Length
- fmax

### H-Sync, V-Sync Inputs/Outputs

- Maximum input voltage
- Type
- HIGH-level input voltage (VIH) min
- LOW-level input voltage (VIL) max
- Output series termination
- HIGH-level output voltage (VOH) min
- LOW-level output voltage (VOL) max
- Output short to ground
- fmax

#### **Miscellaneous Specifications**

- Connectors
- Power Requirements

75 Ohms +/- 1%
O dB with 75 ohm termination at the load
12 ns, maximum to 0.1% with a 2 volt step when driving 5 ft. of RG-59U cable
5% typical with a 2-volt step
<0.06% maximum</li>
<0.02 degrees maximum</li>
Indefinite period of time without damage
400 ft. using RG59
350 MHz (3 dB point)

-0.5 to 5.5 volts
LS TTL Schmitt Trigger
2.0 volts @ 20 uA
0.8 volts @ 0.4 mA
33 Ohms
2.7 volts @ 0.4 mA
0.35 volts @ 8 mA
Indefinite period of time without damage
2 MHz

BNC Female 12 VDC, 250 mA max

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