

VIDEO DELAY UNIT UN14/511

Introduction

The UN14/511 provides 5 fixed delay increments with a preset control for fine adjustment. It is intended for temporary use in specific circumstances, e.g. special event programmes, to facilitate rapid and precise timing of inputs to a studio vision mixer.

General Description

The unit is built into a diecast box 4½ in x 2½ in x 1½ in with Musa input and output connectors. The box is finished in bright yellow enamel as a reminder of the presence of a temporary unit in the mixer wiring. The unit is not loss-free or distortion-free and

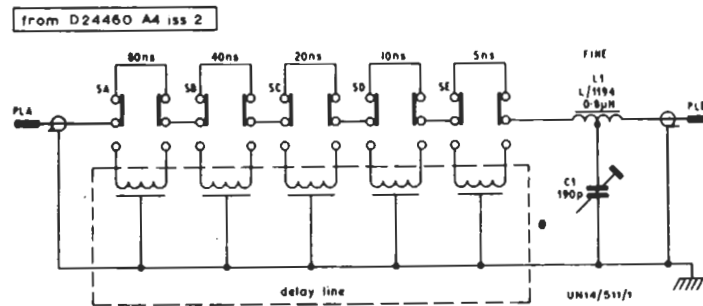


Fig. 1 Circuit of the Video Delay Unit UN14/511

General Specification

<i>Basic Insertion Delay</i>	10ns (16° at 4.43 MHz)
<i>Fixed Delay Increments</i>	5, 10, 20, 40 and 80ns
<i>Variable Delay Range</i>	±4ns (set to best value in each case)
<i>Impedance</i>	75 ohms
<i>Low-frequency Insertion Loss at Max Delay</i>	0.15 dB ±0.1 dB
<i>Insertion Loss at 4.43 MHz and at Max Delay</i>	0.4 dB ±0.1 dB
<i>Return Loss at Max Delay for Typical Unit</i>	
15 kHz	37 dB
4.43 MHz	21 dB
<i>Return Loss as above but with Trimmer at Mid-Position</i>	
15 kHz	37 dB
4.43 MHz	31 dB
<i>Chrominance/Luminance Timing Error</i>	less than 5 ns

must not be wired permanently into circuit.

The five fixed delays are selected by sliding switches mounted on the front panel. The preset control provides fine adjustment.

Maintenance

Routine maintenance is not required but the clean operation of the switches should be checked before use.

Reference

1. Designs Department Specification No. 8.338(69)

AIBS/71