COLOUR MATRIX BYPASS UNIT UN1/601

Introduction

The UN1/601 forms part of a UN1/577 or UN1/577A Colour Matrix Unit and consists, basically, of three delay networks; these can be connected by means of relay contacts between the colour-signal input and output plugs to provide a bypass facility for the matrix. The networks ensure that, when the matrix is bypassed, the timing of the output signals does not change. The bypass is in operation when the associated relays are not energised and when this condition obtains the matrix can be removed, if necessary, without affecting the signals.

The UN1/601 is constructed on a printed-wiring termination panel; a circuit diagram is given in Fig. 1.

General Specification

Inputs	R_{in}, G_{in}, B_{in} and Y_{in}
Outputs	R_{out}, G_{out} and B_{out}
Input Impedances	75 ohms $\pm 0{\cdot}2\%$ when inputs are fed to the matrix
Bypass	delay sections can be switched between: R_{in} and R_{out}, G_{in} and G_{out}, B_{in} and B_{out}
Bypass Delay	32 ns ± 2 ns
Relay Energising Potential	48 V at 45 mA d.c.
Panel Size	$1\frac{7}{8}$ in. wide by $3\frac{1}{2}$ in. deep
Weight	$\frac{3}{4}$ lb.

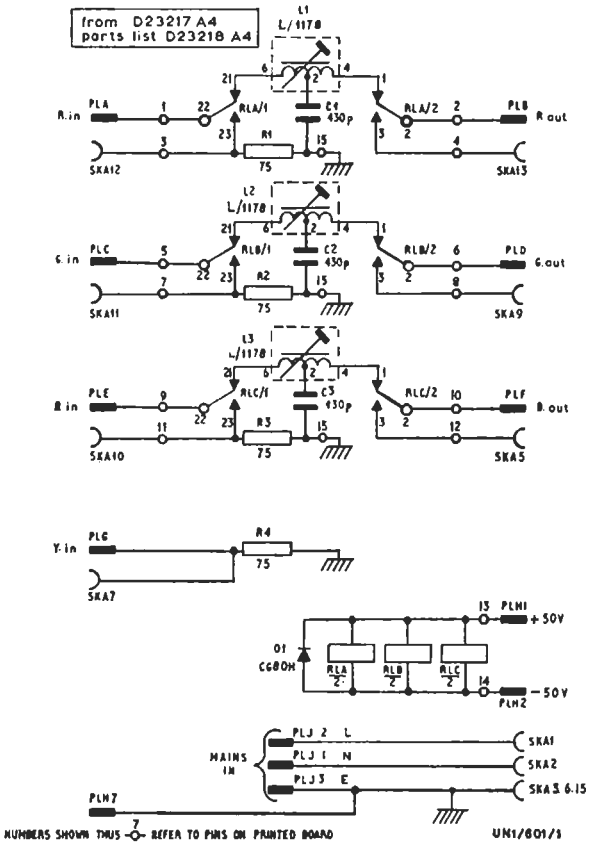

Fig. 1. Colour Matrix Bypass Unit UN1/601

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