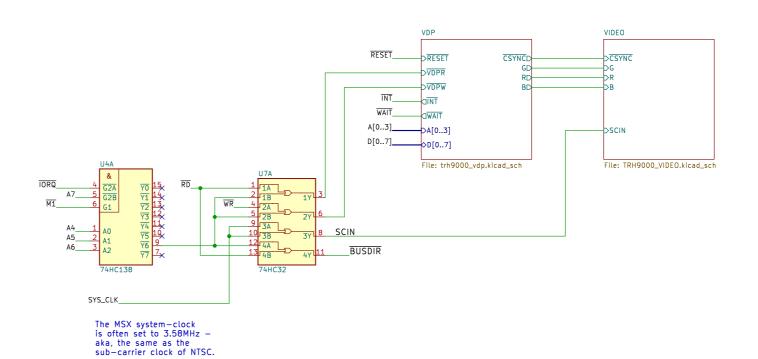
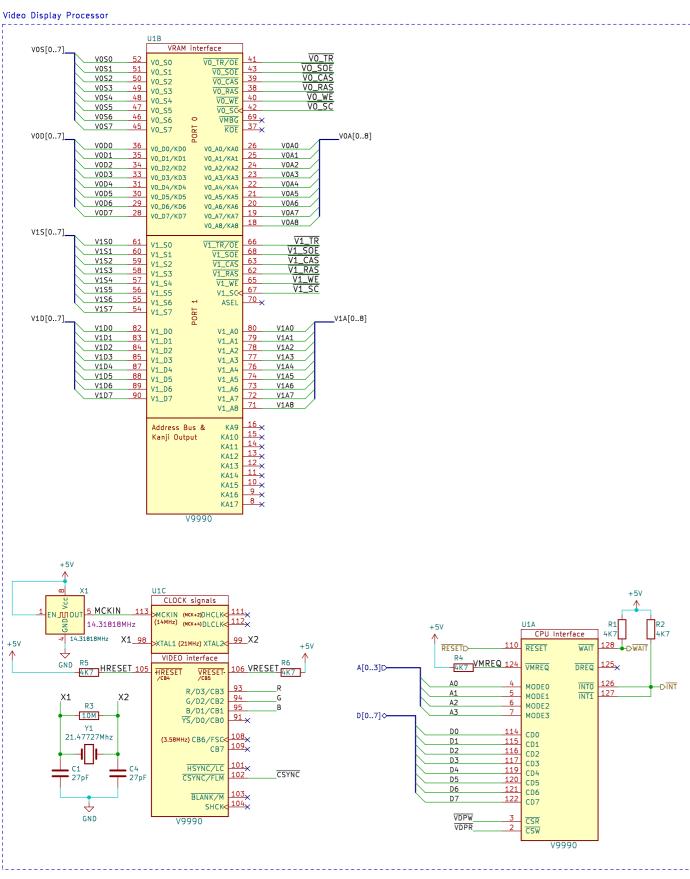




LEGEND:

VDP = Video Display Processor CLK = Clock SLTSL = Slot Select signal CS = Chip Select SYS_CLK = MSX System Clock





VGA clocks:

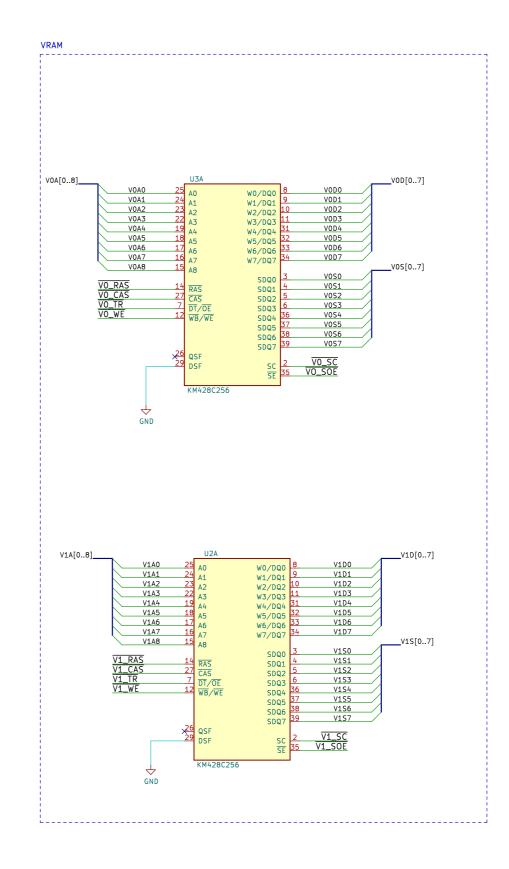
640x400 (70Hz) - 25.175 MHz 640x480 (60Hz) - 25.175 MHz

Pal clocks:

704x576 (50Hz) - 4.43361875 MHz

NTSC clocks:

704×480 (60Hz) - 3.579545 MHz

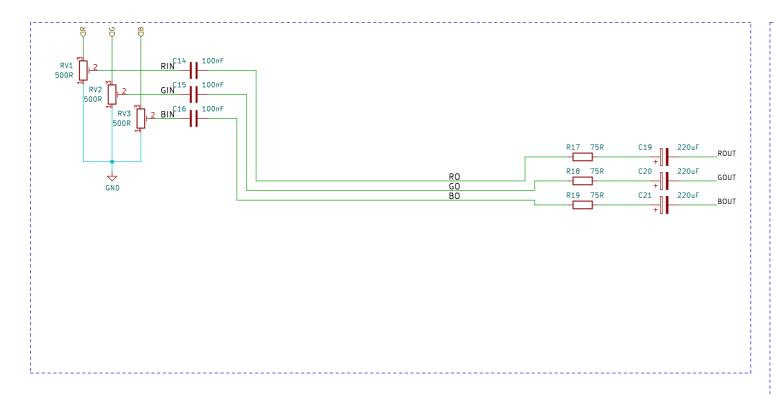


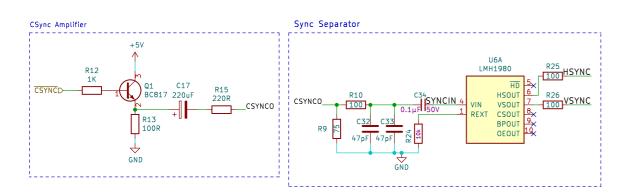
WAIT_ INT

RESET

CSYNC

RESE





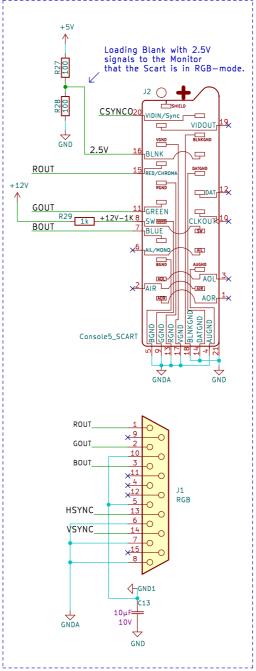
Implementing Superimpose:

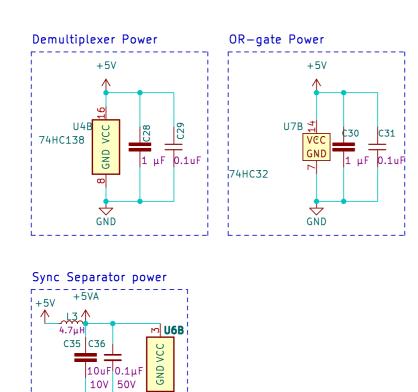
1. Feed external HSYNC / VSYNC into V9990 HRESET / VRESET pins for synchronisation

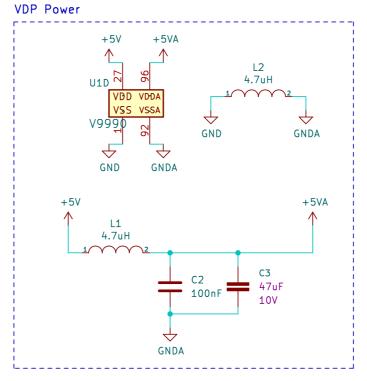
2. Combine external and internal R, G, B with an analog multiplexer, controlled by /Ys signal

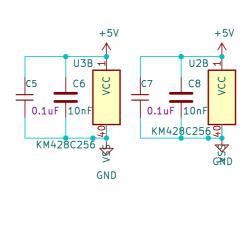
The principle is that the original external signal is passed through while /Ys is not superimposing.

Video Output Connectors

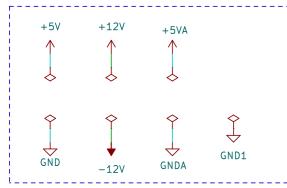












GND

LMH1980