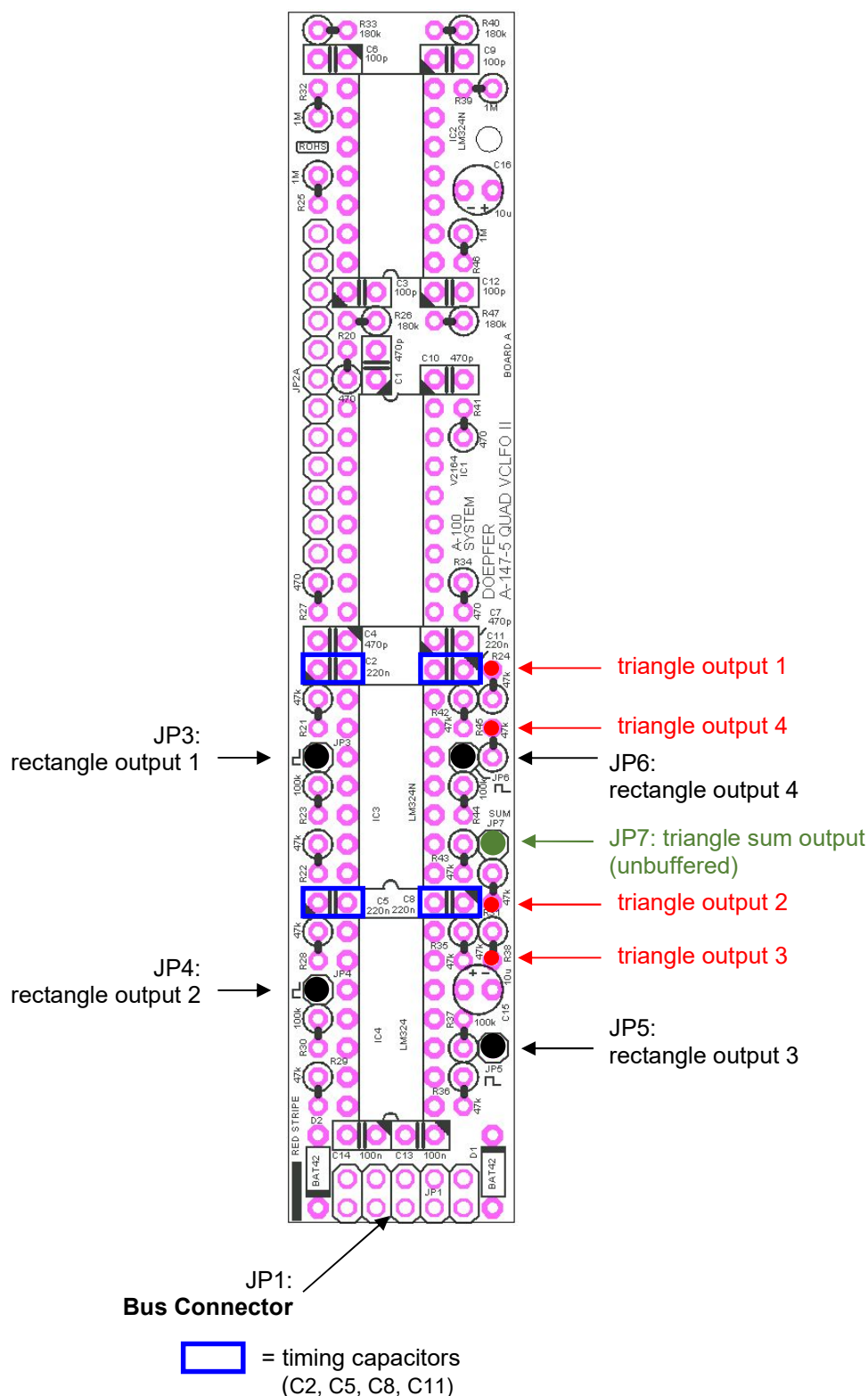


DOEPFER MUSIKELEKTRONIK GMBH

ANALOG MODULAR SYSTEM A-100

A-147-5 Quad VCLFO

Position and function of the pin headers and pins



The timing capacitors can be replaced to obtain other frequency ranges. The factory value is 220nF. Example: replacing a 220nF capacitor by 2.2n multiplies the frequency range by 100 (audio range VCO).

If required the triangle sum output (JP7) has to be buffered to avoid level changes when the load changes. For this e.g. the modules A-180-3 (buffer), A-180-4 (buffer) or A-183-3 (buffer + amplifier) can be used. Each of the four triangle outputs is simply connected via a 47k resistor to the sum terminal

When a rectangle outputs are used it is recommended to add a serial 1k protection resistors to each output. As the levels of the rectangle outputs are about 20Vpp passive attenuators (voltage dividers) may be used alternatively to the 1k protection resistors (e.g. 10k+10k to divide the levels in half).