



RP2040 Arbitrary wave form generator based on RPI PICO board

Remark: as alternative use 2N2219 and 2N2905 for Q1 and Q2. Frequency response is then 20Hz to 5MHz

Buffer gain is approx. 2, use R3 to adjust AWG output to AD8055 input range with RP2040 3.2Vpp, output is 6.2Vpp. Gain is flat approx. 20Hz to 20MHz for low frequencies use DC output coupling (SW4) or increase C5 appropriately v2: R3 reduced to 20k, R4,R5 reduced to 680R, U2 separate analog power (U3, U4)

Sheet: /	
File: AWG_RP2040.sch	
Title: Arbitrary Signal Generator with output buffer stage	
Size: A4	Date: 2021-09-30
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1	Rev: 2
	Id: 1/1