



Main board Adjusted 5V 20K

Sheet: /  
File: Alie controller George.sch

**Title: 128 step Volume control JV8 20K**

Size: A4 Date: 2021-09-03  
KiCad E.D.A. kicad (5.1.10)-1

Rev: 1  
Id: 1/2

**Design input parameters**

Stage constant resistance: 20k  
 Stage attenuation: 1dB  
 Choose resistor values from: E96  
 Attenuator type: Constant input resistance  
 Number of stages: 7  
 Stage permutation: Default

**Design Result**

Nominal attenuation:	1dB	2dB	4dB	8dB	16dB	32dB	64dB
Maximum deviation:	0.02dB	-0.01dB	0.03dB	0.01dB	-0.06dB	-0.09dB	0.1dB

This attenuator provides 128 positions ranging from 0 to -127.1dB with average stepsizes of 1.001dB.  
 Input resistance ranges from 19.91k to 20.1k.  
 Output resistance ranges from 0 to 9.433k.

