

Sheet1

Aleph J on a BrianGT Mini Aleph Board

Component comparison

Aleph J Schematic		BrianGT Schematic	BrianGT Board	Comment
Label	Value	Label	Label	
R1	22.1K	R1		
R2	221K	R2		
R3	22.1K	R9		
R4	221K	R15		
R5	4.75K	R5		
R6	68K	C5		Off board with LED
R7	1K	R18		
R8	1K	R8		May have to change this for DC offset
R9	221	R22		
R10	221	R29		
R11	221	R19		
R12	221	R30		
R13	221	R21		
R14	392	R17		
R15	1K	R20		
R16	0.47	R28		
R17	0.47	R35		
R18	0.47	R27		
R19	0.47	R36		
R20	0.47	R23		
R21	0.47	R24		
R22	0.47	R25		
R23	0.47	R26		
R24	1.2K	R12		Sets AC gain
R25	1.5K	R14		
R26	3.32K	R16		
R27	68.2K	C5		Adjust for mosfet current
		R0		Open
		R3		Open
		R4		Jumper
		R6		Open
		R7		Jumper
		R10		Open
		R11		Jumper
		R13		Open
		R32		Open
		R33		Open
		R37		Open
		R38		Open
		R39		Open
		R40		Open
C1	1uf	C1		
C2	220uf	C3		

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C3 220uf
C4 10uf
C5 5pf

C2
C4

C6

Q1A 2SJ109
Q1B
Q2 ZTX550
Q3 ZTX450
Q4 ZTX450
Q5 IRFP240
Q6 IRFP240
Q7 IRFP240
Q8 IRFP240

Q2
Q1
Q3
Q4
Q5
Q7
Q9
Q6
Q8

Board is G D S 2SJ74 matched with Q1B 2SJ74
matched 2SJ74, JFet is D G S

L1 Blue LED

off board

Q1A and Q1B should be attached to each other for thermal stability