

1-BAND PARAMETRIC EQ

Preliminary document!

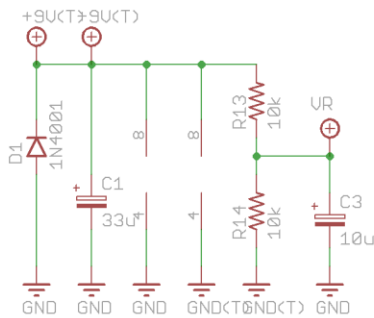
OVERVIEW

This little guy is an universal specialist. Due to the nature of the parametric EQ it can easily be used to boost or attenuate frequency ranges in any signal.

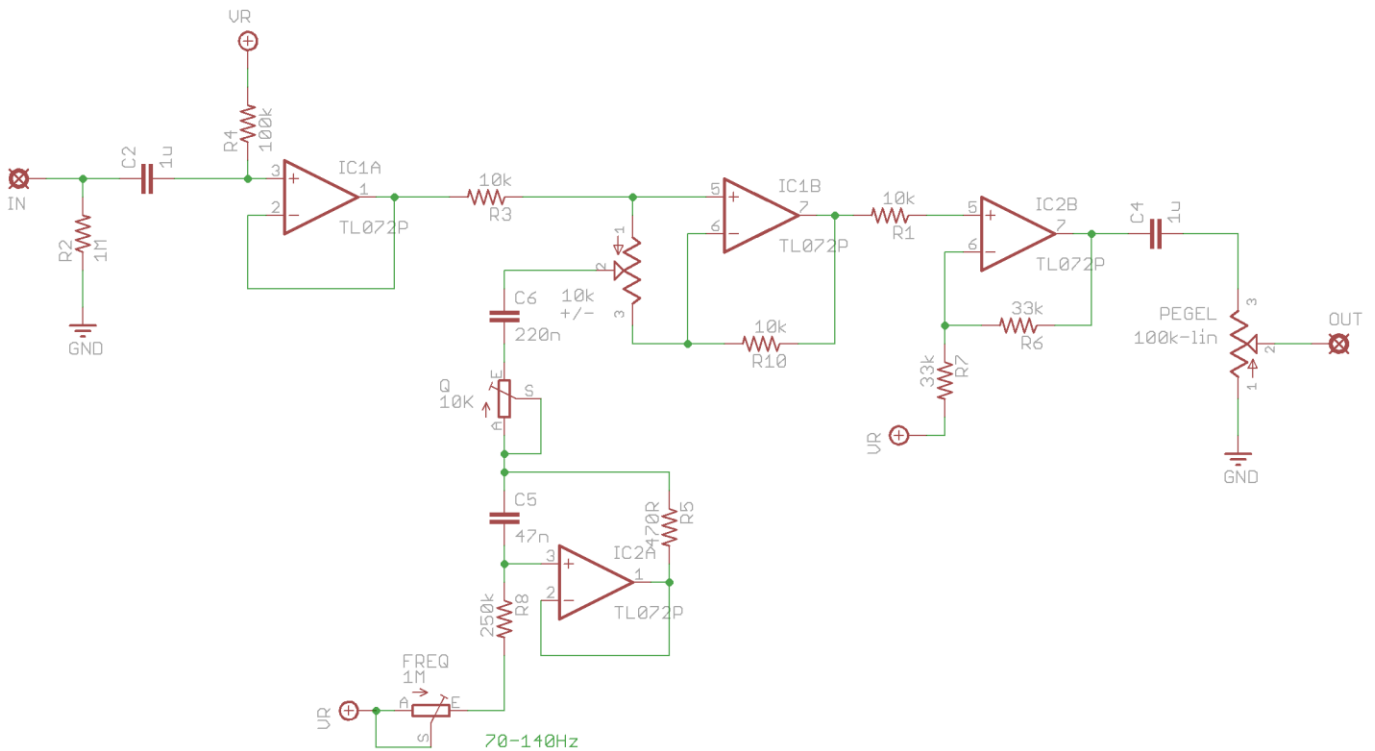
GENERAL

Jack Orman has released an online calculator to find the correct parts values for gyrator circuits which this tool is based on. Please visit <http://www.muzique.com/lab/gyrator.htm> to find out more about it.

SCHEMATIC



1-Band Parametric _ EQ V3
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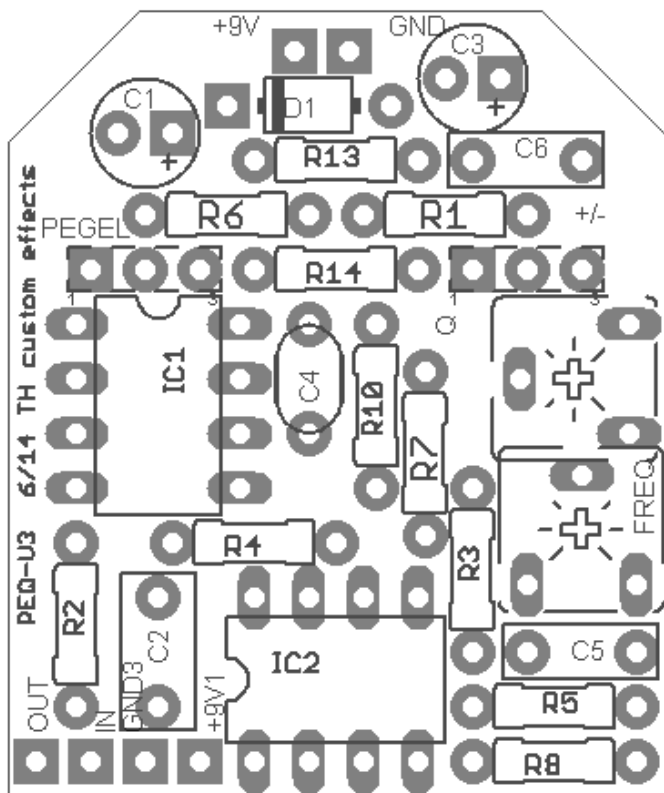


BILL OF MATERIALS

	Parts	Qty	Value	Description	
Resistors	R1, R3, R10, R13, R14	5	10k		
	R2	1	1M		
	R4	1	100k		
	R5	1	470R*		
	R6	1	33k?		
	R8	1	250k		
	Capacitors	C1	1	100uF	polarized electro 5mm Ø / 8mm
		C2, C4	2	1uF	MLCC
C3		1	10uF	polarized electro 5mm Ø / 8mm	
C5		1	47n*		
C6		1	220n*		
Diodes		D1	1	1N4001	
Pots	+/-	1	10k lin	9mm Alpha	
	Pegel(Volume)	1	100k lin	9mm Alpha	
	Q	1	5k/10k	Trimpot ACP 6mm / Piher	
	Freq	1	1M	Trimpot ACP 6mm / Piher	
ICs	IC1,IC2	2	TL072		

BUILDING

Start populating the diode and resistors first. If you have space, socket your IC. If not, put in the IC now. Next are the MLCC caps then the box film and polarized electros.



FINALLY

The parametric EQ is a great tool for any purpose that needs manipulation of a specific frequency range in your signal. Be it a bass boost or taming high frequencies.

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