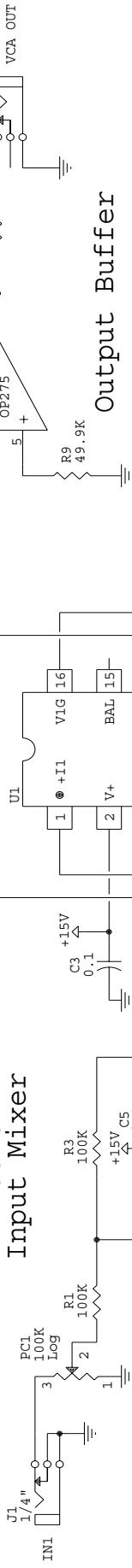
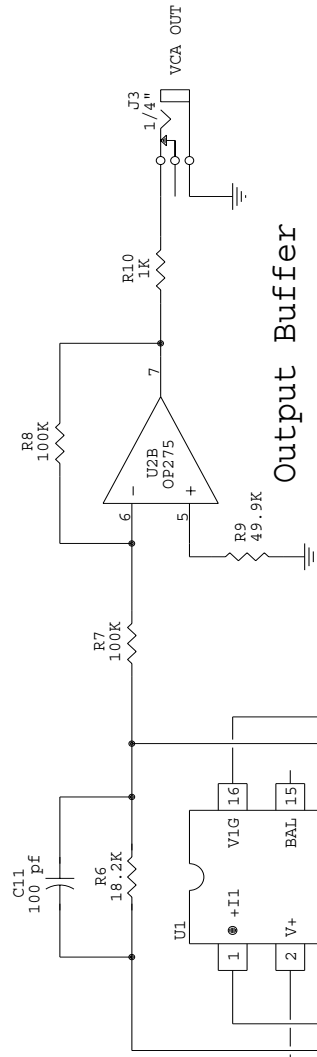


RFE-117 VCA

Audio Input Mixer



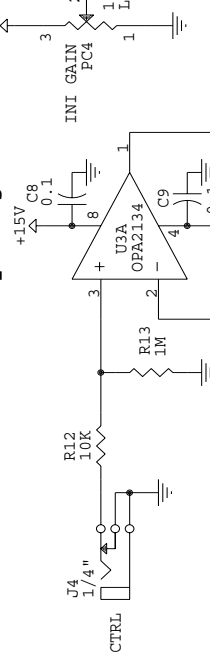
VCA Core



Output Buffer

With a +10dbv input signal:
Vc = -0.5V for > +19dbv output
Vc = +3.5V for < -69 dbv output

CV Polarity Adjust



NOTES

Gain of an SSM2018 increases as ambient temperature rises. The resistance of TCR1 will increase as temperature goes up. Greater control voltages correspond to DECREASED gain in response to DECREASED gain. An increase U4B circuit gain above 1 as temperature rises, the temperature effects on U1 are essentially nullified.

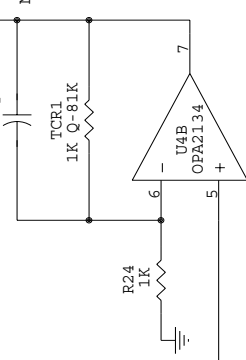
Potentiometer Notes
Pin 1 = CW end of element
Pin 2 = Wiper
Pin 3 = CCW end of element

CV Calibrate

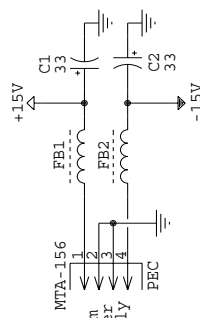


Temperature Compensation

Note: TCR1 must be in thermal contact with U1.



DC Power Input



C1, C2 are low ESR variety

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RFE-117 HIGH QUALITY EXPONENTIAL VCA		
Size	Document Number	REV
B	RFE117.SCH	0
Designed by Tom Farrand		
Date:	June 8, 2002	Sheet 1 of 1