

CAPI LC53A Rev B Test Points

Overview

Test Point measurements of the LC53A Rev B audio path really only need to be carried out if your module does not pass audio at unity gain. The following results were obtained with an AP Portable One as the signal generator and a Fluke 177 as the measurement device. The source impedance was set to 150Ω. The LC-EP PCB should **not** be connected to the main PCB assembly. All cut/boost switches should be set to 0 and the IN switch should not be engaged.

Setup

1. Set your signal generator to provide a +4dBu sine wave @ 400Hz. I recommend 400Hz since many DMM's are not accurate when trying to read 1kHz or the like.
2. This should be verified with your DMM before proceeding. Set your DMM to read AC volts. With nothing connected to the output of your generator, assuming a balance device with an XLR, connect your red probe to pin 2 and black probe to pin 3. Your DMM should read 1.228V AC. Adjust your generator as required to achieve this 1.228V AC. FYI, you can use a DAW for this. The output level will depend on your dBFS reference. Something like -14dBFS should be a good starting point.
3. Once the above has been verified, prepare the LC53A as specified in the Overview section above. Couple the generator to the module and apply the sine wave signal.

Proper Results

TP1 = 606.7mV AC

TP2 = 604.9mV AC

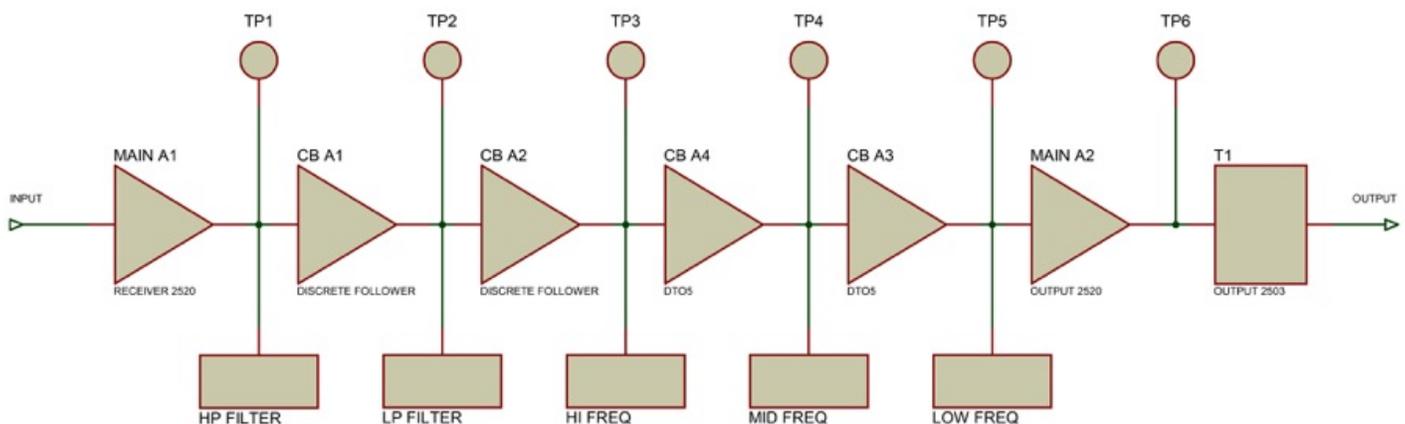
TP3 = 600mV AC

TP4 = 413mV AC

TP5 = 415.2mV AC

TP6 = 412.8mV AC

Module's output = 1.228V AC



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