**08/28/2022 – Sunday - Using the Solartron 1250 to test a 1st Order Low Pass Filter**

A video will be made to show how to use the Solartron 1250 Frequency Response Analyzer to test a 1st Order Low-Pass-Filter made form an Inverting Op-Amp.

The filter has the form:

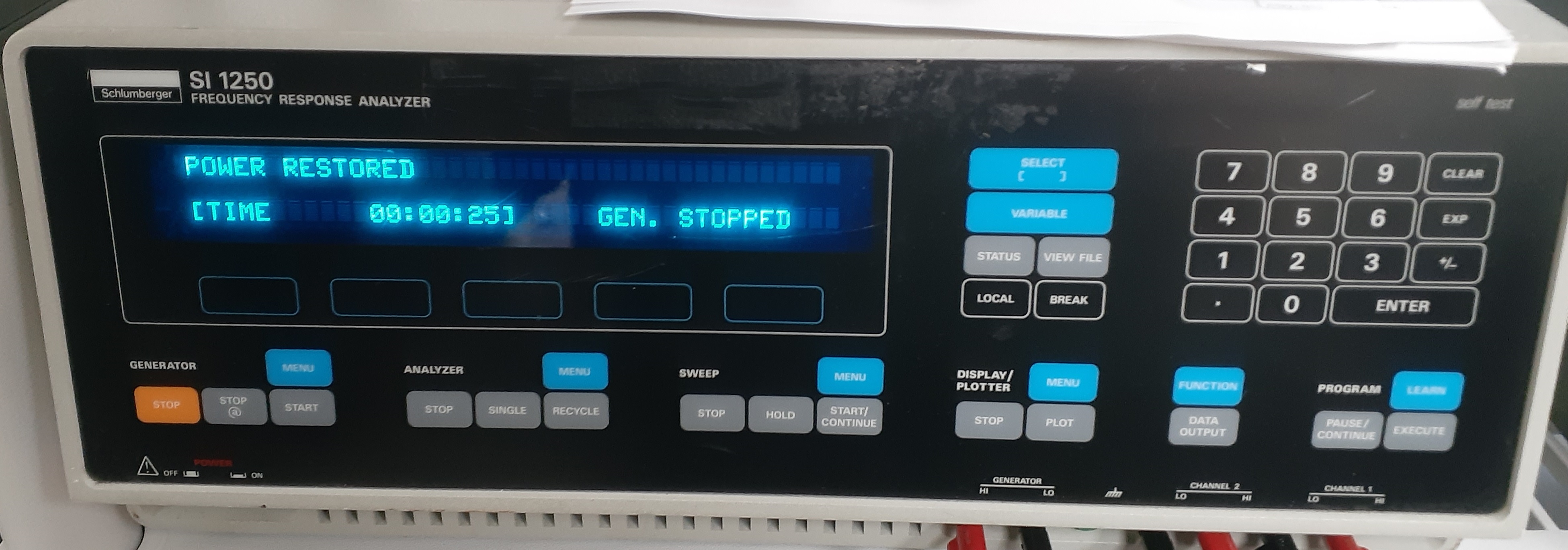
R = 100,000 Ohms

C = 0.1 micro-f

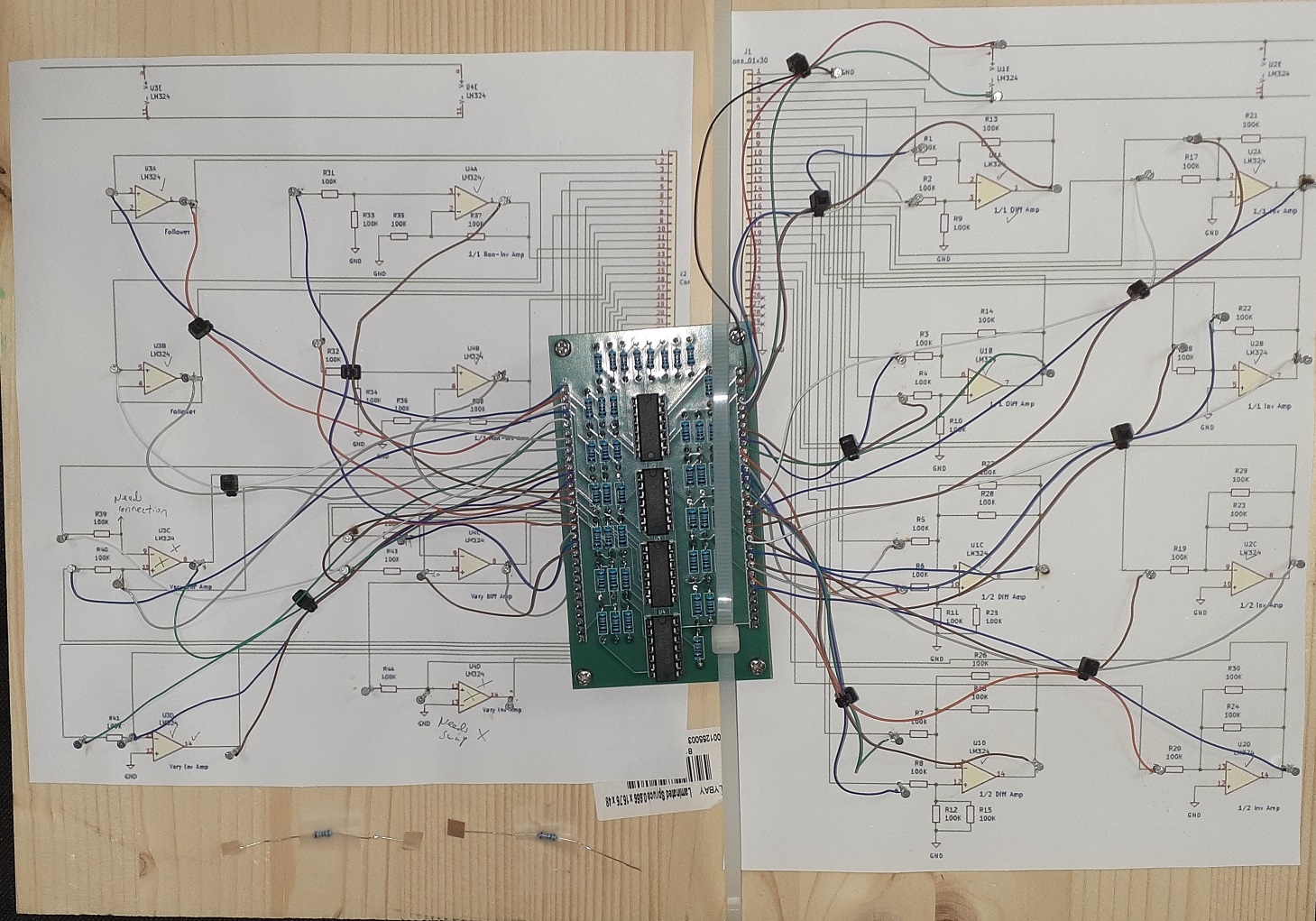
Where:

This is a “1/tau = 1/0.01 sec = 100 rps = 15.915 Hz” Bandwidth Low-Pass-Filter, meaning that at 15.915 Hz the gain will be -3db, and the phase lag will be -45 degrees.

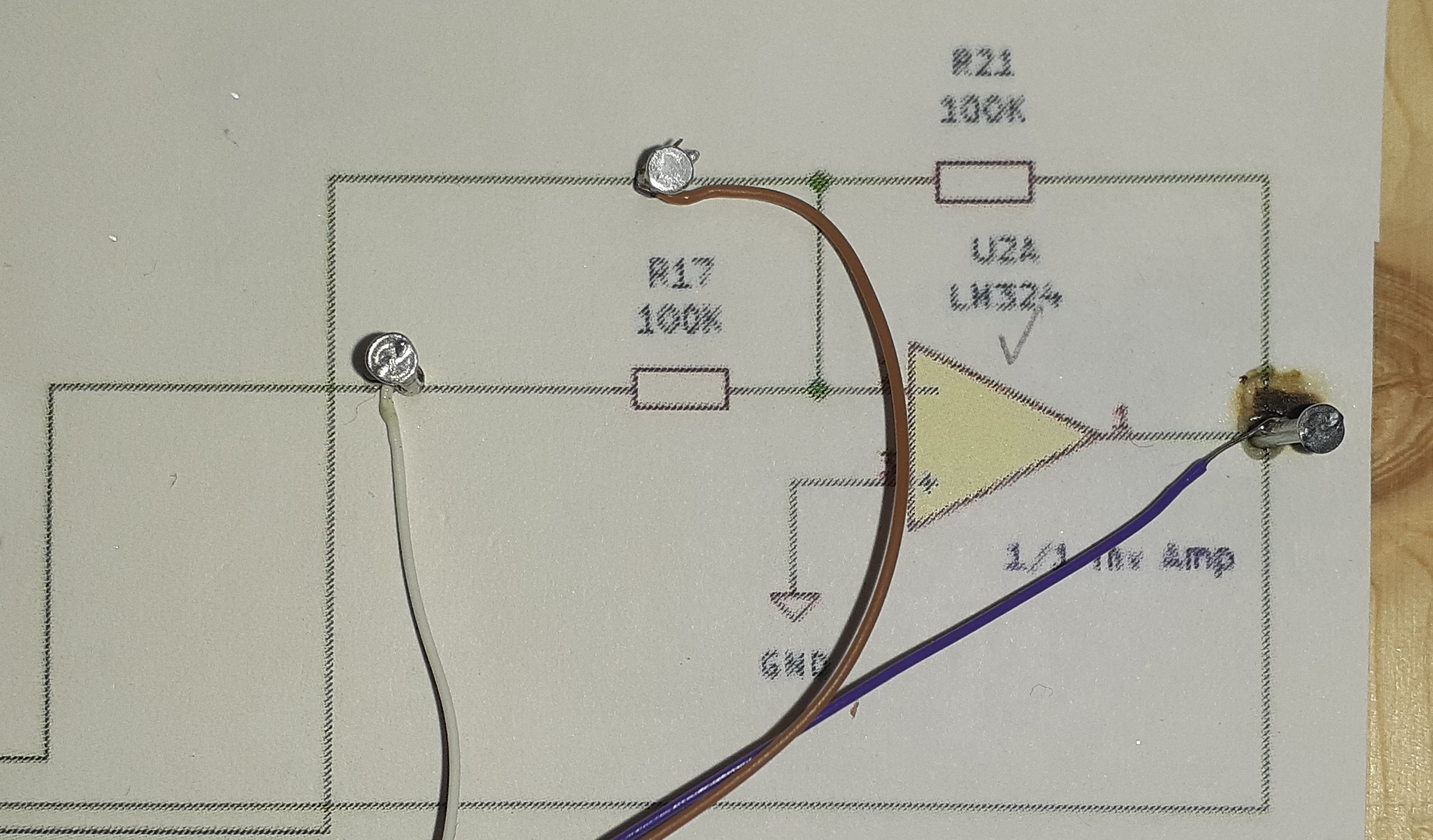
Schlumberger Solartron Model 1250



**Op-amp-board – General Purpose for Lab Use.**



Inverting Op-Amp



**Solartron Connections to the Inverting Op-Amp Low Pass Filter**



**Results – Compared Test Results to Expected Test Results**

