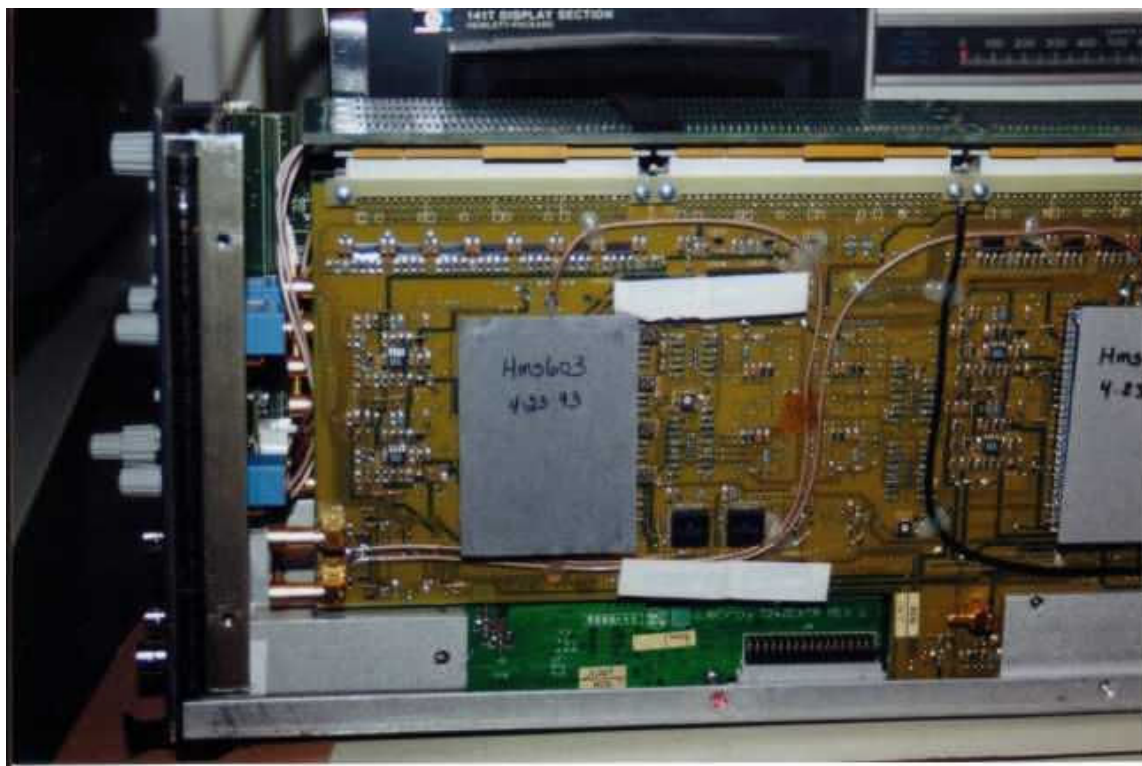


LeCroy 7242 Calibration and Test

Ready for Test

The 7242 uses four A/Ds clocking at 250MHz each with a 90 deg. Phase shift to achieve a sample rate of 1Gs/S on all channels in single shot mode. Each 7242 will have a total of eight A/D converters. You can program the memory depth up to a Meg per channel, depending on the model. The 7242 allows you to stack the converters to give us up to 11 bits of resolution. Repeatative waveforms can be captured at 20Gs/S. Considering the scopes age and it's hard to imagine anything better in this era.



A 7242A A/D board.



The 7242B.



The two 7242Bs now ready for final checkout.



A couple of PP020 probes. Keep in mind, they will limit the BW of the 7242x. Also, from my testing, you will not be able to calibrate the PP020 probe to the 7242 plug-in. These probes will appear slightly under compensated, or over dampened. I did not take the ones I procured apart to see how difficult it would be to add a small fixed capacitor in series with the tuning capacitor. The following information was taken from LeCroy's web site:

PP002

Description:

10:1 350 MHz 10 M Passive Probe

With sense ring. 1 Mini Probe: The ideal probing tool for fine pitch integrated circuits. 2 Equipped with SMA conductor Compatibility: 1= 9304C/9310C/9314C/9350C/54C 2= 9361C 3= 9370C/74C/9384C LCs 4= 9362C

[View Detailed Specifications](#)

Bandwidth: 350 MHz

Input C pF: 14.0

Attenuation: 10:1

Maximum Voltage: 500

Probe Ring: Yes

Input Z (ohm): 10M

Compatability: 9304, LT224

7242/A modifications for 7200A mainframe applications

Purpose: The 7242 and 7242A plug-ins will not work in a 7200A mainframe without this modification.

Description:

- 1) Remove module cover
- 2) On 7242ICON make cut a cut at J33 C2 between the pin and the trace that runs next to it.
- 3) Place a jumper between J33 C2 and J33 B2.
- 4) Reinstall module cover.

