https://www.haraldswerk.de/Wave\_Processors/Dual\_Sample\_and\_Hold/Dual\_Sample\_and\_Hold.html#Anker03

**Dual Sample&Hold Description:**

This implementation follows closely the original Elektor Formant implementation. Refer to the original documentation if needed. Changes are the input buffers, using the LM13700 instead of the CA3080 and the adaption to 10Vpp signal level.

**S&H Calibration**

Set the THRESHOLD potentiometer (R1, R2) to zero (CCW);

Input a square wave to the trigger input;

Use an oscilloscope to measure the output signal at the tapper of trimpotentiometer R23 at TP4 (R24 at TP5);

Adjust R23 (R24) to get 3,5V signal amplitude at TP4 (TP5);

Adjust the noise amplitude at TP1 to desired level with trimpotentiometer R38.

**Noise Filter configuration**

Configuration options:

C21, R34, R35, C22 values must be selected according to required filter characteristics.

https://www.learningaboutelectronics.com/Articles/Bandpass-filter-calculator.php

https://www.digikey.com/en/resources/conversion-calculators/conversion-calculator-low-pass-and-high-pass-filter

HP: Mount C21, R34. R35 = 0R, C22 = DNP;

LP: Mount R35, C22. C21 = 0R, R34 = DNP;

BP: Mount C21, R34, R35, C22;

Inverter: C21 = 0R, R35 = 0R, R34 = DNP, C22 = DNP.

**Special parts**

DA2 alternative CA3240