

The diagram illustrates a microwave system architecture. The signal path is as follows:

- Input:** A signal enters from the left, labeled "jumper".
- VCO (Voltage-Controlled Oscillator):** A blue rectangular block. It is powered by a 5V supply. Part number: CVC055BE-1530-2700. Source: <https://www.crystek.com/documents/catalog/VCOSelectorGuide.pdf>.
- Attenuator:** A grey rectangular block. Part number: GAT-4+ (optional?).
- Power splitter:** A blue rectangular block. It is powered by a 5V supply. Part number: SP-2U1+.
- Power amp. (Power Amplifier):** A blue triangular block pointing right. It is powered by a 5V supply. Part number: PSA-39+. Source: https://www.minicircuits.com/pcb/WTB-PSA-39+_P02.pdf.
- Mixer:** A blue circular block with an 'X' inside. It is powered by a 5V supply. Part number: ADE-3G+.
- Bias-T:** A blue rectangular block. It is powered by a 5V supply. Part number: TCBT-14+. Source: https://www.minicircuits.com/pcb/WTB-653+_P02.pdf.
- LNA (Low Noise Amplifier):** A blue triangular block pointing left. Part number: PSA4-5043+.
- Amp/filter (Amplifier/Filter):** A blue triangular block pointing left. It is powered by a 5V supply.

Connections and Labels:

- The input "jumper" connects to the VCO.
- The VCO connects to the Attenuator.
- The Attenuator connects to the Power splitter.
- The Power splitter connects to the Power amp. and the Mixer.
- The Power amp. connects to the SMA output on the right.
- The Mixer connects to the Bias-T and the Amp/filter.
- The Bias-T connects to the LNA.
- The LNA connects to the Amp/filter.
- The Amp/filter connects to the SMA input on the left.



