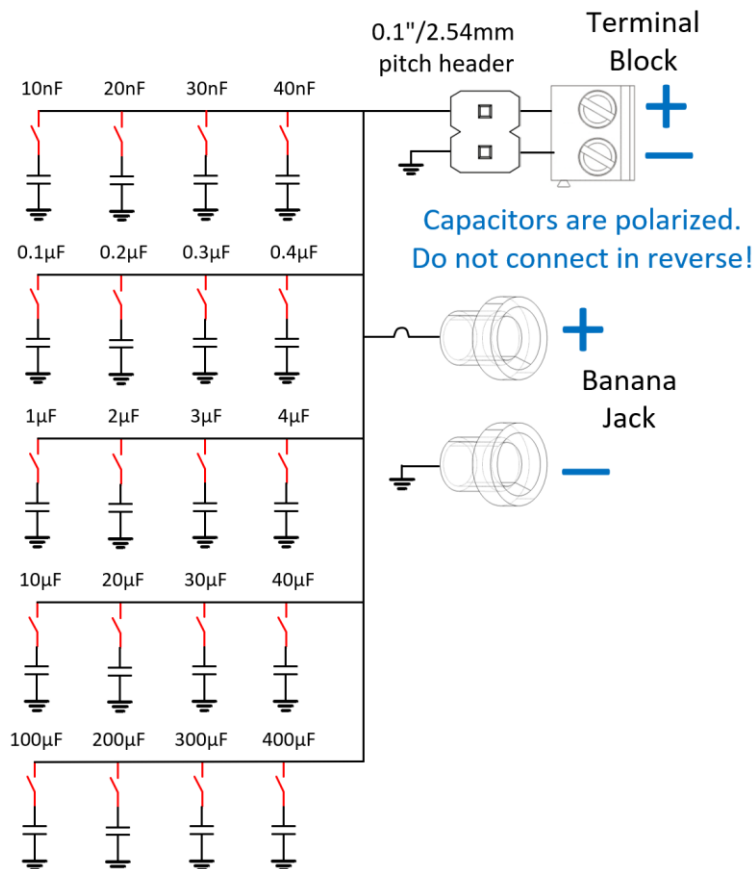


5 Decade Capacitance 125V 10nF – 1mF

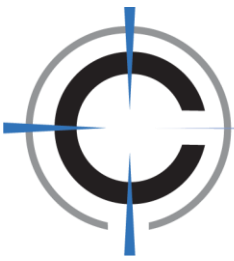


Applications

- Audio amplifier LC tuning
- DCDC converter tuning
- General purpose calibration
- Power filter
- Teaching tool
- Antenna design and testing
- Impedance matching
- Low pass, band pass, high pass filters
- Harmonic oscillators and LC tank circuits

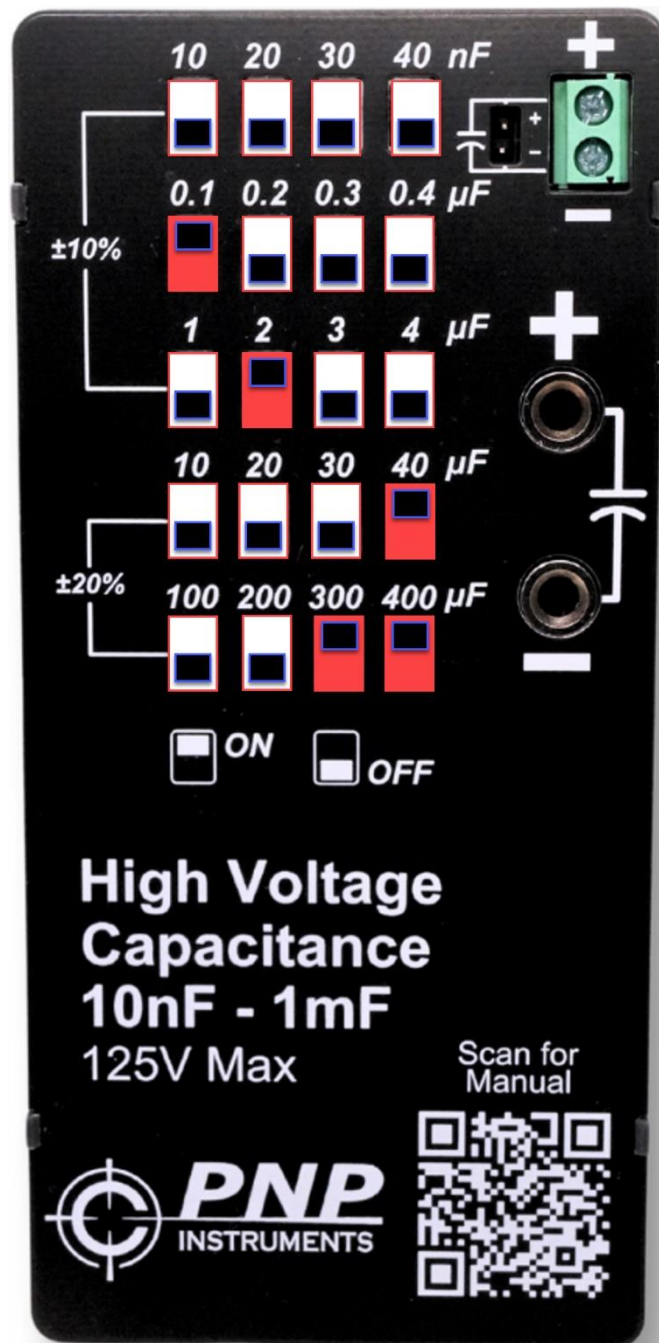
Description

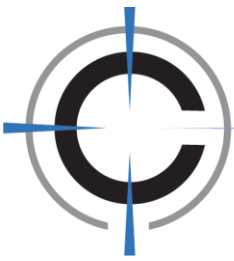
The Five Decade Capacitance box has five decades from 0nF to 1mF. Each switch in the “ON” position will add its capacitance value to the total capacitance to the banana jack/terminal block/headers. When the switch is “OFF”, its capacitance value is disconnected to the circuit. The box is a general-purpose tool to be used in design, development, debugging or educational purposes. It provides user with many options to interface with the box. It can handle up to 125V from capacitance values of 0nF to 1mF. Apply no more than 125V to the box or permanent damage may occur. **Capacitors are polarized meaning the more positive voltage must connect to the positive terminal indicated on the unit!**



Operation

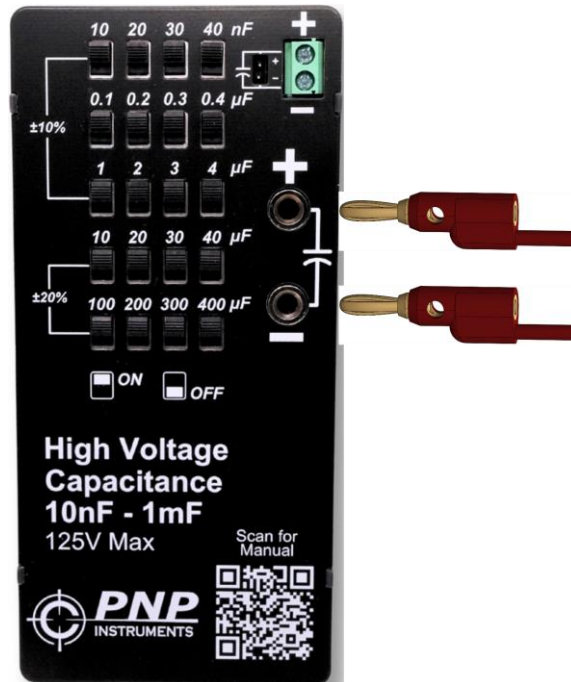
To select a desired capacitance value, make sure that all switches are in the “OFF” position except for the values wanted. For example, for 742.1 μ F output, the following switches (*Shown Below*) should be in the “ON” position. Any switch in the “ON” position adds to the total output capacitance value.



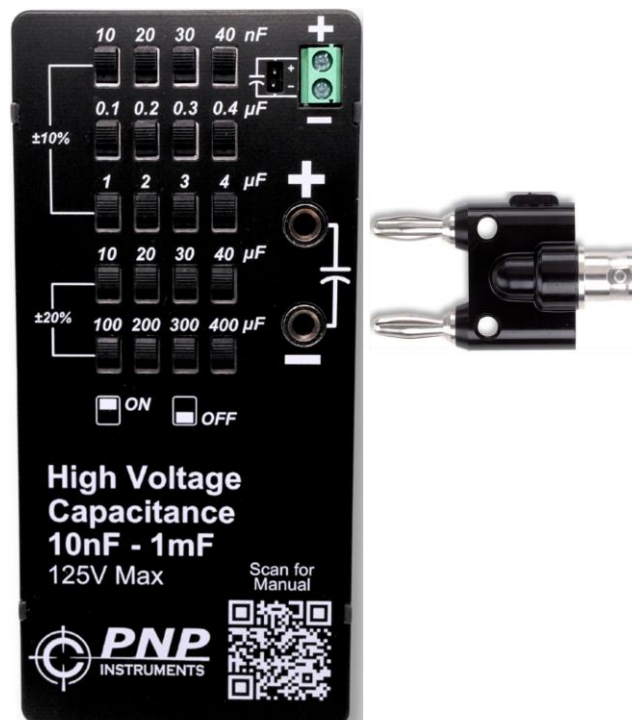


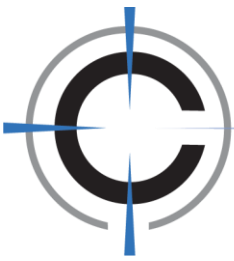
How to Interface

There several ways to interface to the box. The Banana terminals are 4mm and can be used with off the shelf banana plug cables.



The banana terminal's can accommodate common Banana to BNC adaptor.

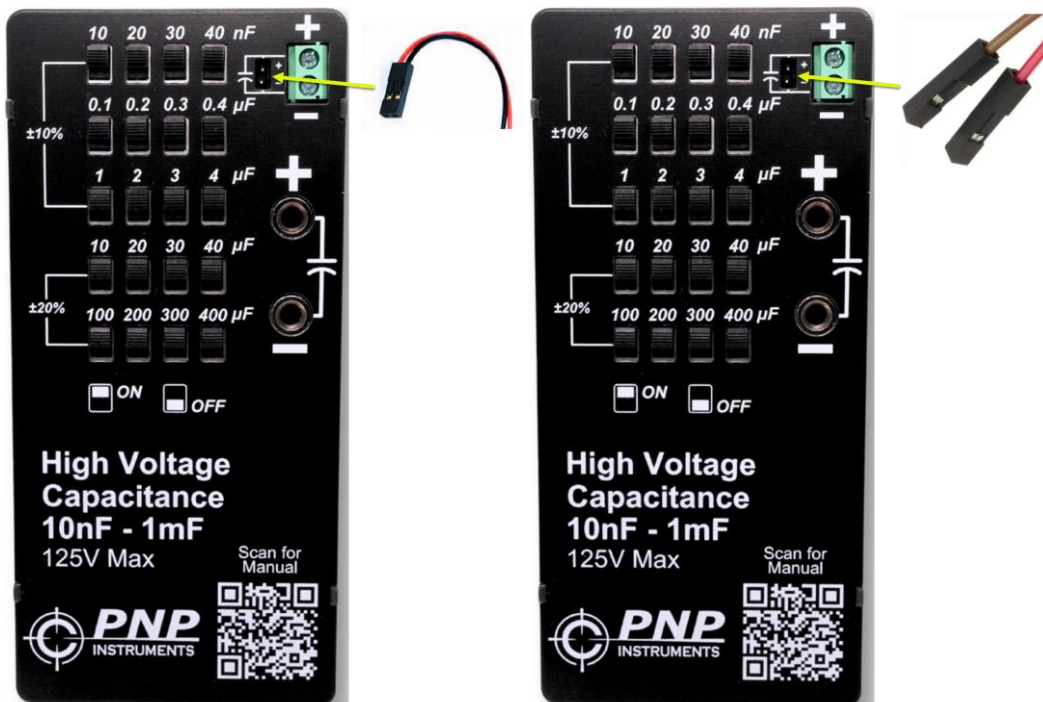




Can use solid core wire between 26-14AWG and connect to the terminal block. The terminal block has a pitch of 5mm.



Can use a 2.54mm 2-pin female header to connect or individual female pin headers





Specifications

<i>Range</i>	<i>Tolerance</i>	<i>Max Voltage</i>
10nF	10%	125V
20nF	10%	125V
30nF	10%	125V
40nF	10%	125V
0.1μF	10%	125V
0.2μF	10%	125V
0.3μF	10%	125V
0.4μF	10%	125V
1μF	10%	125V
2μF	10%	125V
3μF	10%	125V
4μF	10%	125V
10μF	20%	125V
20μF	20%	125V
30μF	20%	125V
40μF	20%	125V
100μF	20%	125V
200μF	20%	125V
300μF	20%	125V
400μF	20%	125V

Switch Resistance 100mΩ Max

Max DC/AC Voltage **125V**

<i>Unit weight</i>	7.5oz 213g
<i>Dimensions</i>	5.46x2.58x0.124"
	138.7x65.5x31.5mm

Note: Do not exceed 125V or connect polarity backwards!



Mechanical Dimensions

