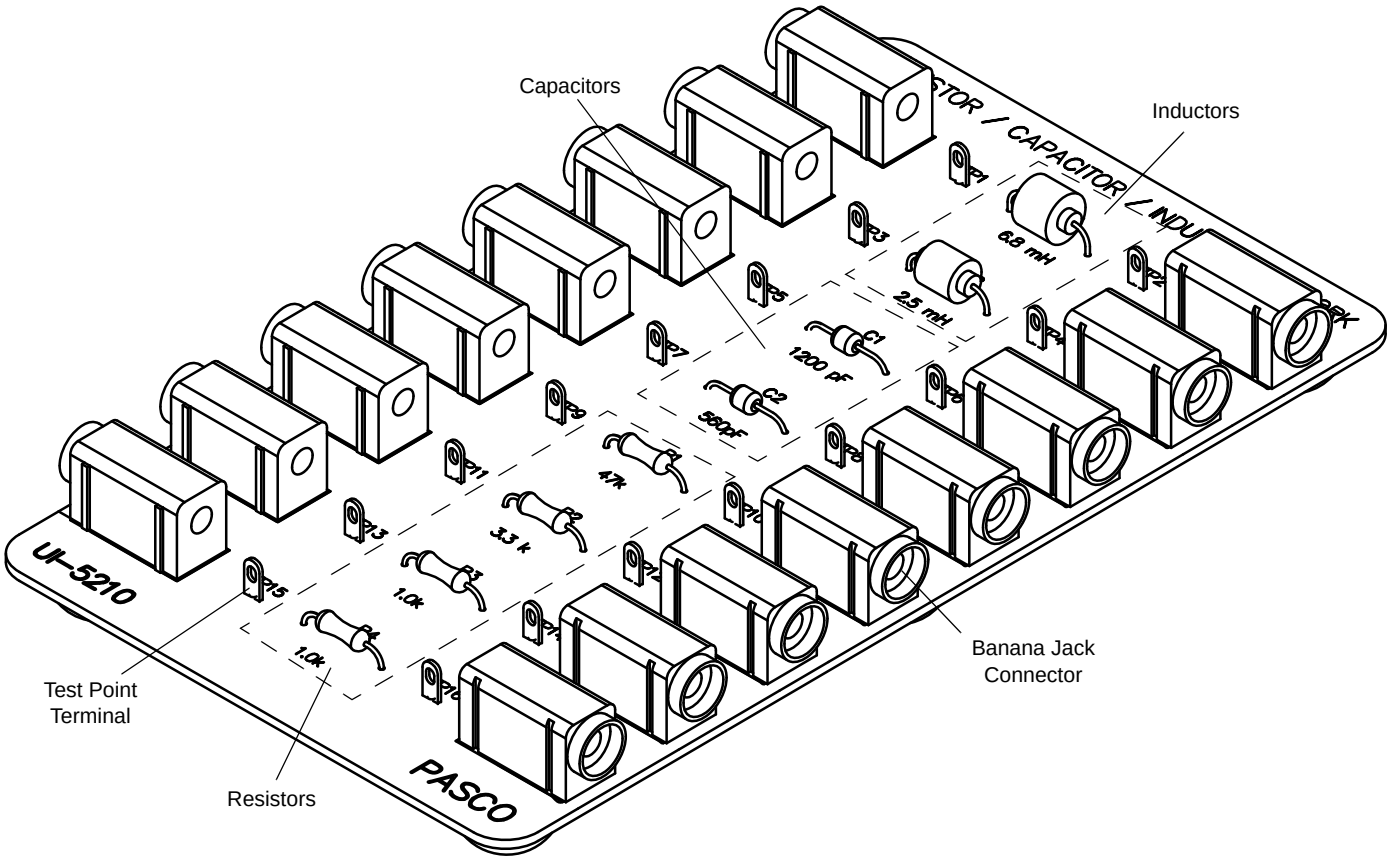
Resistor/Capacitor/Inductor Network

UI-5210



Included Components	Included Components	Included Components
Resistor R1, 47 kilo-ohm (1)	Capacitor C1, 1200 picofarad (1)	Inductor L1, 6.8 millihenry (1)
Resistor R2, 3.3 kilo-ohm (1)	Capacitor C2, 560 picofarad (1)	Inductor L2, 2.5 millihenry (1)
Resistor R3, 1.0 kilo-ohm (1)	Test Point Terminal (16)	Banana Jack Connector (16)
Resistor R4, 1.0 kilo-ohm (1)		

Introduction

The PASCO UI-5210 Resistor/Capacitor/Inductor Network is designed to be used with the UI-5000 *850 Universal Interface*. The components in the network include four resistors, all 0.25 watt, 5% tolerance; two ceramic capacitors, both 100 volt, 10% tolerance, axial; and two inductors, 6.8 millihenry (mH) and 2.5 mH. There are also sixteen test point terminals and sixteen banana jack connectors.

The UI-5000 *850 Universal Interface* has built in power output capability. There are two banana jack connectors and two BNC connectors on the front panel of the interface. The banana jack connectors can supply ±15 volt (V) at up to 1 ampere (A). The BNC connectors can each supply ±10 V at up to 50 mA. The signal output is selected using the data acquisition software, and the interface can measure and display its output voltage and amperage.

Other Equipment

Recommended Equipment*	Recommended Equipment*
PASCO 850 Universal Interface (UI-5000)	PASCO data acquisition software
Banana Plug Patch Cords (SE-9750 and SE-9751)	Alligator Clip Adapters (SE-9756)
Alligator Clip Leads (EM-8634)	Voltage-Current Sensor (PS-2115)

**See the PASCO catalog or the web site at www.pasco.com for more information.*

Use with the PASCO *850 Universal Interface*

CAUTION: Never supply the components on the Resistor/Capacitor/Inductor Network with external source voltages greater than ± 20 volts.

1. Use the data acquisition software to set up the interface output signal.

2. Use banana plug patch cords, alligator clip adapters, and/or alligator clip leads to connect components of the Resistor/Capacitor/Inductor Network to the *850 Universal Interface*.

3. Use a PASPORT Voltage-Current Sensor (PS-2115) (or a *Universal Interface* Voltage Probe (UI-5100) and PASPORT Current Probe (PS-2184)) to measure the voltage across and the current through the connected components.

Technical Support

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific
10101 Foothills Blvd.
Roseville, CA 95747-7100

Phone: 916-786-3800 (worldwide)
800-772-8700 (U.S.)

Fax: (916) 786-7565

Web: www.pasco.com

Email: support@pasco.com

For the latest revision of this product or the Instruction Sheet, visit the PASCO web site and enter UI-5210 in the Search window.

Product End of Life Disposal Instructions:
This electronic product is subject to disposal and recycling regulations that vary by country and region. It is your responsibility to recycle your electronic equipment per your local environmental laws and regulations to ensure that it will be recycled in a manner that protects human health and the environment. To find out where you can drop off your waste equipment for recycling, please contact your local waste recycle/disposal service, or the product representative.

The European Union WEEE (Waste Electronic and Electrical Equipment) symbol and on the product or its packaging indicates that this product **must not** be disposed of in a standard waste container.

Limited Warranty *For a description of the product warranty, see the PASCO catalog.* **Copyright** *The PASCO scientific 012-13329A Resistor/Capacitor/Inductor Network Instruction Sheet is copyrighted with all rights reserved. Permission is granted to non-profit educational institutions for reproduction of any part of this manual, providing the reproductions are used only in their laboratories and classrooms, and are not sold for profit. Reproduction under any other circumstances, without the written consent of PASCO scientific, is prohibited.* **Trademarks** *PASCO, PASCO scientific, ScienceWorkshop, DataStudio, PASPORT, and SPARK Science Learning System are trademarks or registered trademarks of PASCO scientific, in the United States and/or in other countries. All other brands, products, or service names are or may be trademarks or service marks of, and are used to identify, products or services of, their respective owners. For more information visit www.pasco.com/legal.*