

Figure 1. Physical Photo of ATVRC101

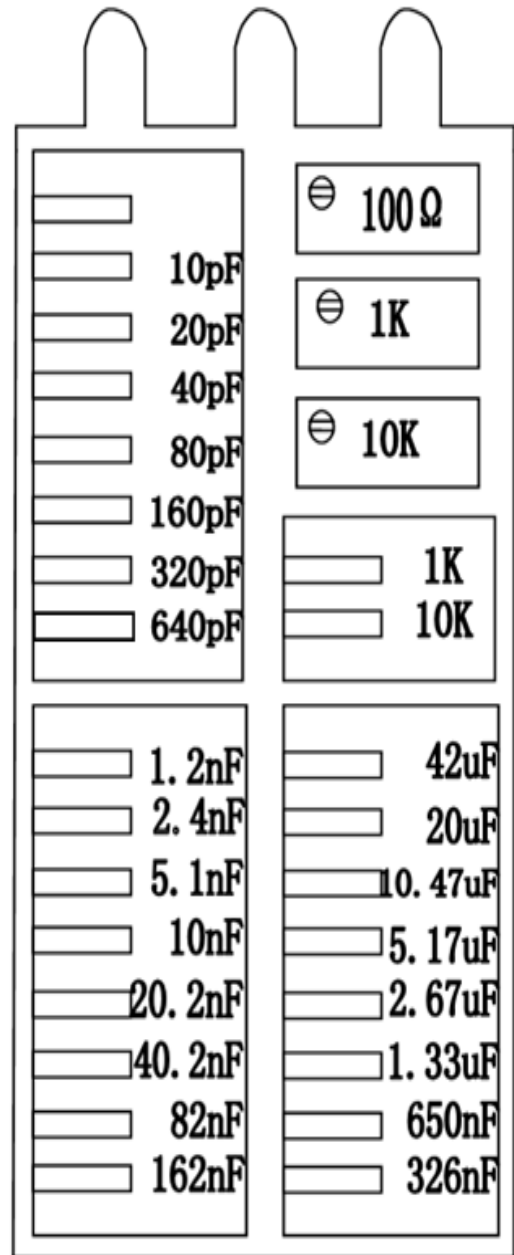


Figure 2. Numerical Distribution of the ATVRC101

FEATURES

Wide adjustable resistance range: 0.1Ω to 10kΩ
 Wide adjustable capacitance range: 10pF to 100uF
 High resistance resolution: 0.1Ω
 High capacitance resolution: 10pF
 High accuracy: ±1%
 Very comfortable to use and easy to read the total value
 Long life span rotary switches
 Compact size
 Durable metal enclosure
 100 % lead (Pb)-free and RoHS compliant

APPLICATIONS

Tuning analog circuits and doing experiments. It's highly recommended for high frequency compensation network tuning, greater than 1MHz, and up to 10MHz.

DESCRIPTION

This ATVRC101 is an accurate press-button switch resistor and capacitor box. The features listed above make it a very useful tool for tuning analog circuits where changing capacitance and resistance is needed. In electronic circuit experiments, ATVRC101 can be used to provide accurate resistance and capacitance values, reducing the time to replace resistors or capacitors, thus greatly improving the efficiency of tuning circuits. Its small size not only saves lab space, but also can be easily transported to another site. The anti-interference ability of this ATVRC101 is also better than other resistor and capacitor boxes currently on the market.

SPECIFICATIONS

 Table 1. Characteristic (T_{Ambient}=25°C)

Parameter	Conditions	Value	Unit/Note
Base dimensions		52×23×8.9	mm
Total height		8.9	mm
Operating Temperature		-40 ~ 55	°C
Resistance			
Adjustment range for each dial		0.1Ω ~100 Ω; 0.1Ω ~ 1kΩ; 0.1 Ω ~ 10kΩ;	
Tolerance	-40°C to 85°C	±1%	
Resolution		0.1	Ω
Residual resistance		0.1±0.01	Ω
Capacitance			
Adjustment range for each dial		10pF to 640pF; 1.2nF to 162nF; 326nF to 20μF	
Tolerance	15°C to 35°C	±5%	
Residual Capacitance		≈10	pF
Resolution		10	pF

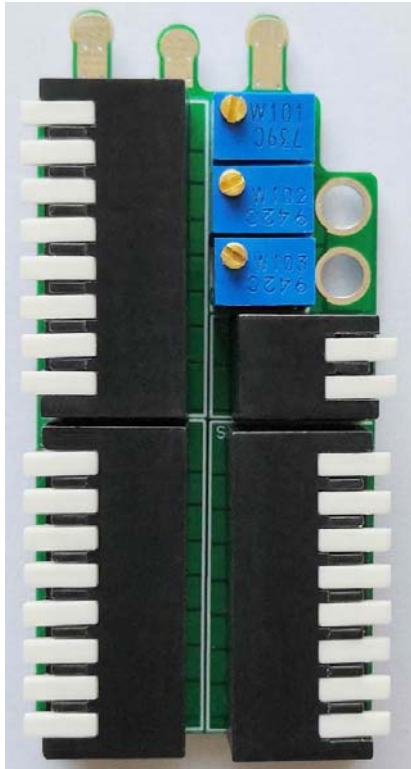


Figure 3. Top View of the ATVRC101

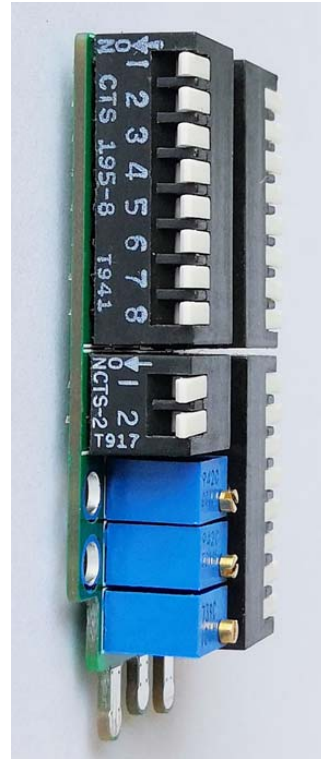


Figure 4. Side View of the ATVRC101

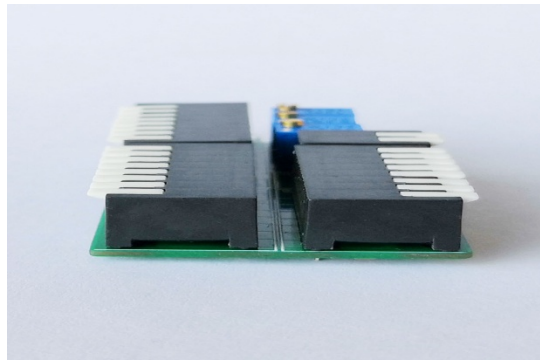


Figure 5. Front View of the ATVRC101



ORDERING INFORMATION

Table 2. Unit Price

Quantity	1 – 9	10 – 49	50 – 199	200-499	≥500
ATVRC101	\$36.0	\$34.0	\$32.0	\$30.0	\$28.0

NOTICE

- ATI warrants performance of its products for one year to the specifications applicable at the time of sale, except for those being damaged by excessive abuse. Products found not meeting the specifications within one year from the date of sale can be exchanged free of charge.
- ATI reserves the right to make changes to its products or to discontinue any product or service without notice, and advise customers to obtain the latest version of relevant information to verify, before placing orders, that information being relied on is current and complete.
- All products are sold subject to the terms and conditions of sale supplied at the time of order acknowledgment, including those pertaining to warranty, patent infringement, and limitation of liability. Testing and other quality control techniques are utilized to the extent ATI deems necessary to support this warranty. Specific testing of all parameters of each device is not necessarily performed, except those mandated by government requirements.
- Customers are responsible for their applications using ATI components. In order to minimize risks associated with the customers' applications, adequate design and operating safeguards must be provided by the customers to minimize inherent or procedural hazards. ATI assumes no liability for applications assistance or customer product design.
- ATI does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right of ATI covering or relating to any combination, machine, or process in which such products or services might be or are used. ATI's publication of information regarding any third party's products or services does not constitute ATI's approval, warranty or endorsement thereof.
- IP (Intellectual Property) Ownership: ATI retains the ownership of full rights for special technologies and/or techniques embedded in its products, the designs for mechanics, optics, plus all modifications, improvements, and inventions made by ATI for its products and/or projects.