

# Type 1776 Precision Decade Resistor Voltage Dividers

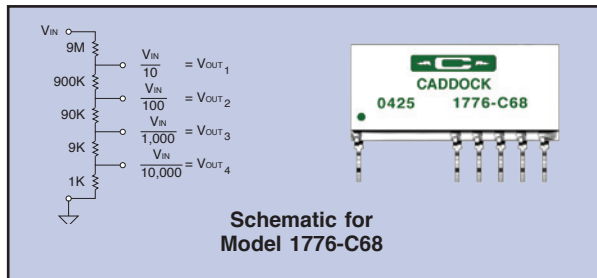
## Input Voltage Dividers for Digital Multimeters and Range-Switching Instruments Introducing New Smaller Models at Lower Cost

The exceptional performance of this extensive family of Type 1776 Precision Decade Resistor Voltage Dividers has been achieved through the special combination of advantages provided by Caddock's Tetrinox® resistance films. This advanced film resistor technology provides the performance characteristics required by the precision input signal circuits of both bench-type and laboratory digital instruments.

In addition to requiring less board space, these compact precision resistor networks deliver higher performance than selected discrete resistor sets and thin-film networks.

There are now 39 standard models in the expanded family of Type 1776 precision resistor networks that include:

- 3, 4, and 5 - decade voltage dividers with ratios from 10:1 to 10,000:1.
- 1,200 volts continuous ratings and overvoltage to 2,000 volts.
- Many combinations of Ratio and Absolute Tolerance, and Ratio and Absolute Temperature Coefficient.



For complete information on quantity price and delivery, contact our Sales Office.

New

Model No.	Resistance Values					Fig.	Voltage Rating (7)	Absolute Tolerance %	Ratio Tolerance % (1)	Abs. TC ppm/C	Ratio TC ppm/C (2)	TC Temp. Range (2)	Voltage Coef. of Ratio ppm/volt (3)	Ratio Stability % Change in Ratio		
	R1	R2	R3	R4	R5									Load Life (4)	Shelf Life (5)	Over-Voltage (6)
1776-C67	9 Meg	900 K	90 K	9 K	900	10	1200	0.1	0.1	30	10	Range 1	0.04	0.01	0.003	0.005
1776-C671	9 Meg	900 K	90 K	9 K	900	10	1200	0.1	0.05	30	10	Range 1	0.04	0.01	0.003	0.005
1776-C6715	9 Meg	900 K	90 K	9 K	900	10	1200	0.1	0.05	30	5	Range 1	0.04	0.01	0.003	0.005
1776-C68	9 Meg	900 K	90 K	9 K	1 K	10	1200	0.1	0.1	30	10	Range 1	0.04	0.01	0.003	0.005
1776-C681	9 Meg	900 K	90 K	9 K	1 K	10	1200	0.1	0.05	30	10	Range 1	0.04	0.01	0.003	0.005
1776-C6815	9 Meg	900 K	90 K	9 K	1 K	10	1200	0.1	0.05	30	5	Range 1	0.04	0.01	0.003	0.005
1776-C48	10 Meg	1.1111M	101.01K	10.01K	1.0001K	11	1200	0.1	0.1	30	10	Range 1	0.03	0.01	0.003	0.005
1776-C481	10 Meg	1.1111M	101.01K	10.01K	1.0001K	11	1200	0.1	0.05	30	10	Range 1	0.03	0.01	0.003	0.005
1776-C4815	10 Meg	1.1111M	101.01K	10.01K	1.0001K	11	1200	0.1	0.05	30	5	Range 1	0.03	0.01	0.003	0.005
1776-C61	9 Meg	900 K	90 K	9 K	900	6	1200	0.1	0.1	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C611	9 Meg	900 K	90 K	9 K	900	6	1200	0.1	0.05	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C62	9 Meg	900 K	90 K	9 K	1 K	6	1200	0.1	0.1	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C621	9 Meg	900 K	90 K	9 K	1 K	6	1200	0.1	0.05	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C6217	9 Meg	900 K	90 K	9 K	1 K	6	1200	0.1	0.02	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C742	9 Meg	900 K	90 K	9 K	1 K	7	1200	0.25	0.25	50	50	Range 2	0.5	0.04	0.02	0.04
1776-C74	9 Meg	900 K	90 K	9 K	1 K	7	1200	0.1	0.1	50	50	Range 2	0.5	0.04	0.02	0.04
1776-232	9 Meg	900 K	90 K	9 K	900	3	1200	0.25	0.25	50	50	Range 2	0.3	0.04	0.02	0.04
1776-23	9 Meg	900 K	90 K	9 K	900	3	1200	0.1	0.1	50	50	Range 2	0.2	0.02	0.01	0.02
1776-242	9 Meg	900 K	90 K	9 K	1 K	3	1200	0.25	0.25	50	50	Range 2	0.3	0.04	0.02	0.04
1776-24	9 Meg	900 K	90 K	9 K	1 K	3	1200	0.25	0.1	50	50	Range 2	0.2	0.02	0.01	0.02
1776-241	9 Meg	900 K	90 K	9 K	1 K	3	1200	0.25	0.05	50	50	Range 2	0.2	0.02	0.01	0.02
1776-105	9 Meg	900 K	90 K	10 K	N/A	4	1200	+0, -0.5	0.1	30	5	Range 2	0.02	0.01	0.005	0.01
1776-C10	9 Meg	900 K	90 K	10 K	N/A	9	1200	+0, -0.5	0.1	30	10	Range 2	0.02	0.01	0.005	0.01
1776-C105	9 Meg	900 K	90 K	10 K	N/A	9	1200	+0, -0.5	0.1	30	5	Range 2	0.02	0.01	0.005	0.01
1776-1	9 Meg	900 K	90 K	10 K	N/A	2	1200	0.25	0.05	30	10	Range 2	0.02	0.01	0.005	0.01
1776-14	9 Meg	900 K	90 K	10 K	N/A	2	1200	0.25	0.1	30	10	Range 2	0.02	0.01	0.005	0.01
1776-8	9.9 Meg	90 K	10 K	N/A	N/A	1	1200	0.25	0.1	30	25	Range 2	0.2	0.02	0.01	0.02
1776-9	9.9 Meg	90 K	10 K	N/A	N/A	1	1200	0.25	0.1	30	10	Range 2	0.02	0.01	0.005	0.01
1776-91	9.9 Meg	90 K	10 K	N/A	N/A	1	1200	0.25	0.05	30	10	Range 2	0.02	0.01	0.005	0.01
1776-912	9.9 Meg	90 K	10 K	N/A	N/A	1	1200	0.25	0.02	30	5	Range 2	0.02	0.01	0.005	0.01
1776-C4	10 Meg	1.1111M	101.01K	10.01K	1.0001K	8	1200	0.25	0.25	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C44	10 Meg	1.1111M	101.01K	10.01K	1.0001K	8	1200	0.1	0.1	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C441	10 Meg	1.1111M	101.01K	10.01K	1.0001K	8	1200	0.1	0.05	30	10	Range 2	0.1	0.01	0.005	0.01
1776-C34	10 Meg	1.1111M	101.01K	10.01K	1.0001K	8	1200	0.25	0.25	50	50	Range 2	0.5	0.04	0.02	0.04
1776-C532	900 K	90 K	9 K	900	N/A	5	750	0.25	0.25	25	25	Range 2	0.4	0.02	0.01	0.02
1776-C53	900 K	90 K	9 K	900	N/A	5	750	0.1	0.1	25	15	Range 2	0.3	0.02	0.01	0.02
1776-C542	900 K	90 K	9 K	1 K	N/A	5	750	0.25	0.25	25	25	Range 2	0.4	0.02	0.01	0.02
1776-C54	900 K	90 K	9 K	1 K	N/A	5	750	0.1	0.1	25	15	Range 2	0.3	0.02	0.01	0.02
1776-C541	900 K	90 K	9 K	1 K	N/A	5	750	0.1	0.05	25	15	Range 2	0.3	0.02	0.01	0.02

### Specifications:

(Numbers inside circles reference columns in Model No. table)

- ① **Ratio Tolerance:** Maximum ratio error. (See the specific Figures for the Ratio Definition).
- ② **Ratio Temperature Coefficient:** Maximum ratio TC error. (See the specific Figures for the Ratio Definition).  
Range 1: -40°C to +85°C.  
Range 2: 0°C to +70°C.
- ③ **Voltage Coefficient of Ratio (ppm/volt):** R1 in series with any combination of R2, R3, R4, and R5, 100 volts to rated voltage.
- ④ **Load Life:** Ratio stability of resistance under full load at +70°C, rated voltage applied to R1 in series with any combination of R2, R3, R4, and R5 for 2000 hrs.
- ⑤ **Shelf Stability of Ratio:** Six months at shelf conditions.
- ⑥ **Overvoltage:** Maximum voltage of 1.67 times rated DC voltage. Volts DC or peak AC applied to R1 and any combination of R2, R3, R4, and R5 in series with R1 for 10 seconds.
- ⑦ **Voltage Rating:** DC or RMS AC voltage applied to R1 in series with any combination of R2, R3, R4, and R5.

**Storage Temperature:** -40°C to +85°C.

**Applications Engineering**  
17271 North Umpqua Hwy.  
Roseburg, Oregon 97470-9422  
Phone: (541) 496-0700  
Fax: (541) 496-0408

**CADDOCK ELECTRONICS, INC.**

e-mail: caddock@caddock.com • web: www.caddock.com  
For Caddock Distributors listed by country see caddock.com/contact/dist.html

**Sales and Corporate Office**  
1717 Chicago Avenue  
Riverside, California 92507-2364  
Phone: (951) 788-1700  
Fax: (951) 369-1151

**New  
Smaller Models  
Lower Cost**



**New Smaller Models at Lower Cost**

**Lead Form Detail Note:** Lead form detail provides interference in the circuit board hole to achieve a vertical mount of the device. Recommended circuit board hole is nominally 0.039 inch (.99 mm).

DIMENSIONS IN INCHES AND (MILLIMETERS)

Applications Engineering  
 17271 North Umpqua Hwy.  
 Roseburg, Oregon 97470-9422  
 Phone: (541) 496-0700  
 Fax: (541) 496-0408

**CADDOCK ELECTRONICS, INC.**

e-mail: caddock@caddock.com • web: www.caddock.com  
 For Caddock Distributors listed by country see caddock.com/contact/dist.html

Sales and Corporate Office  
 1717 Chicago Avenue  
 Riverside, California 92507-2364  
 Phone: (951) 788-1700  
 Fax: (951) 369-1151

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9