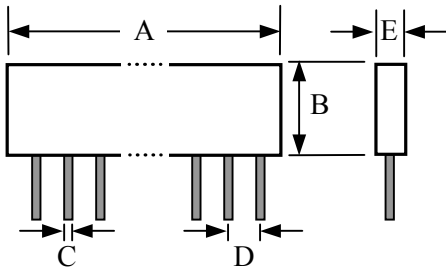




Precision Resistors

Precision Network Resistor - UPRNS Series / 精密网络电阻



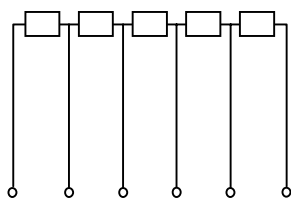
- Precision Network Resistor Low TCR UPRNS Series meets ROHS requirements.
- UPRNS: Serial Dip Type; UPRND: Parallel Dip Type
- UPRNS/UPRND Series are relatively consistent with Tolerance of Nominal Resistance and Temperature Coefficient and are good for application's Precision Divider, Bypass, etc...
- UPRNS/UPRND Series are assembled by EE/RE 1/10 series to form a stable, high precision, and low temperature coefficient Precision Network Resistor. Characteristic of UPRNS/UPRND Series meet.

UPRNS A(mm) ± 0.5	14.20	16.90	19.34	21.90	24.10	27.16	35.00	42.30	50.80
Number of Resistors #	5	6	7	8	9	10	13	16	19

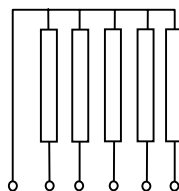
Dimensions (mm)	A	14.20 ± 0.5 ~ 50.80 ± 0.5
	B	12.0 ± 0.5
	C	0.6 ± 0.05
	D	2.54 ± 0.05
	E	4.0 ± 0.5
Rated Wattage of one element unit at 70°C (W)	0.1	
Maximum Working Voltage (V)	200	
Nominal Resistance Range of component element unit (Ω)	10 ~ 1M	
Absolute Tolerance (%)	A2(± 0.02), A5(± 0.05), B(± 0.1), C(± 0.25), D(± 0.5), F(± 1.0)	
Relative Tolerance (%)	T(± 0.01), A2(± 0.02), A5(± 0.05), B(± 0.1)	
Absolute Temperature Coefficient (ppm/ $^{\circ}$ C)	C7(± 5), C6(± 10), C5(± 15), C3(± 25), C2(± 50)	
Relative Temperature Coefficient (ppm/ $^{\circ}$ C)	C10(± 2), C9(± 3), C7(± 5), C6(± 10), C5(± 15)	
Working Temperature ($^{\circ}$ C)	-10 ~ +70	

- Remark
- Absolute value means all factors (Tolerance and Temperature Coefficient) of component element units of Network Resistor are independent.
 - Relative value means the maximum difference factor among component element units of Network Resistor.

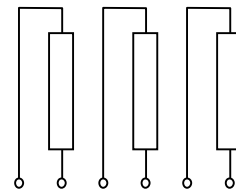
► Examples for Construction - Precision Network Resistor



TYPE 1



TYPE 2



TYPE 3

- There are no standard nominal resistance for UPRNS/UPRND Series.
- Customer can designate or specify the number of component elements of Network Resistor according with this specification of UPRNS/UPRND Series to meet your own needs.
- It can be required to Token's representatives if customer's requirement beyonds the range of Token's specifications.



Precision Resistors

► How to Order

UPRNS

❶

8

❷

Type1

❸

10R

❹

B

❺

C5

❻

- ❶ Product type
- ❷ Number of Resistors
- ❸ Construction: Type1, Type2, Type3.
- ❹ Resistance Value (Ω): 10 ~ 1M
- ❺ Resistance Tolerance (%)

	Code	Resistance Tolerance (%)
Absolute	A2	± 0.02
	A5	± 0.05
	B	± 0.1
	C	± 0.25
	D	± 0.5
	F	± 1.0
Relative	T	± 0.01
	A2	± 0.02
	A5	± 0.05
	B	± 0.1

❻ Temperature Coefficient (ppm/ $^{\circ}$ C)

	Code	Temperature Coefficient (ppm/ $^{\circ}$ C)
Absolute	C7	± 5
	C6	± 10
	C5	± 15
	C3	± 25
	C2	± 50
Relative	C10	± 2
	C9	± 3
	C7	± 5
	C6	± 10
	C5	± 15

