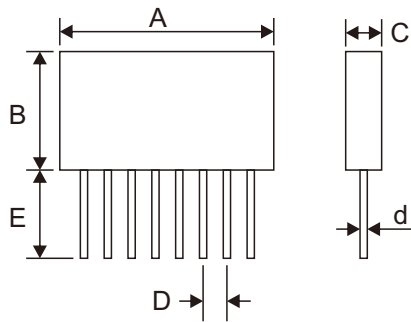


● Features

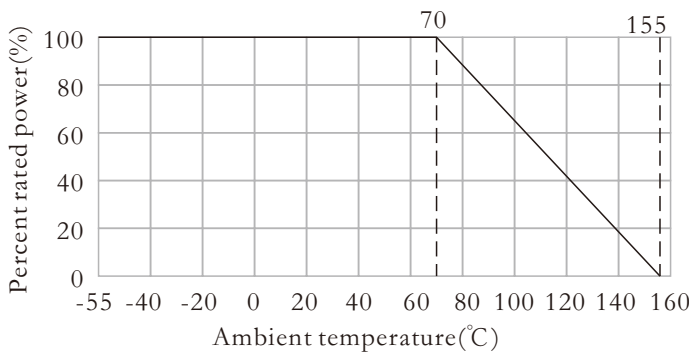
- I Come up to GB/T5729-2003
- II High stability: $\pm 0.5\%$ 70°C 1000h
- III Temp range : -55°C ~ 155°C
- IV High precision
- V Low TCR
- VI Good tracking

● Dimensions

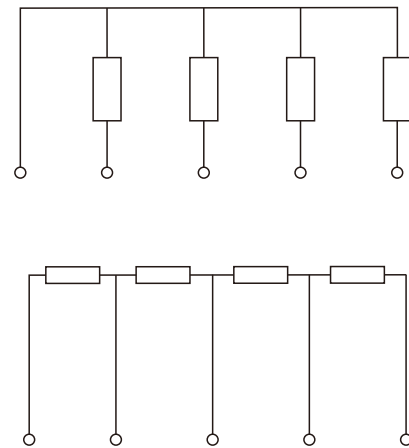


Dimensions(mm)					
A	B	C	D	E	d
10~50	9~12	4±0.5	≥2.54	10±0.5	0.60±0.05

● Derating curve



● Examples for internal circuit



● Ordering Information

Example:

UPRN-S	0.125	F	10R00	C3
(1)	(2)	(3)	(4)	(5)
Series Name	power	Resistance Tolerance	Resistance	T.C.R

(1) Series Name: UPRN-S

(2) power: 0.125 = 0.125W

(3) Resistance Tolerance: P ($\pm 0.02\%$), W ($\pm 0.05\%$) B = $\pm 0.1\%$, C = $\pm 0.25\%$, D = $\pm 0.5\%$, F = $\pm 1.0\%$

(4) Resistance: 0R100 = 0.1Ω, 0R220 = 0.22Ω, 10R00 = 10Ω, 1M000 = 1MΩ

(5) T.C.R: C7 = $\pm 5\%$ PPM/°C, C6 = $\pm 10\%$ PPM/°C, C5 = $\pm 15\%$ PPM/°C, C4 = $\pm 20\%$ PPM/°C, C3 = $\pm 25\%$ PPM/°C, C2 = $\pm 50\%$ PPM/°C

● Reference Standards

JISC 5201-1

● Applications And Ratings

Type	Power rating at 70°C (W)	Limiting element voltage(V)	Resistance range (Ω)	Tolerance range	Relative precision	TCR (PPM/°C)	Relative TCR (PPM/°C)
UPRN-S	0.125W	200V	5R~10R	P(±0.02%)	L(±0.01%) P(±0.02%) W(±0.05%)	±5	2~10
			10R~250R	W(±0.05%)		±10	
			250R~500K	B(±0.1%)		±15	
			500K~1M0	C(±0.25%)	B(±0.1%)	±20	5~10
			1M0~2M0	D(±0.5%)		±25	
			2M0~10M0	F(±1.0%)	±50	10	

● Performance

Test items	Performance requirements	Test methods(JIS C 5201-1)
Short time overload	$\leq \pm (0.1\%R + 0.01\Omega)$	2.5 times rated voltage, 5S
Temperature shock	$\leq \pm (0.1\%R + 0.01\Omega)$	-55°C ~ 155°C, 5 cycles, 0.5h
Dielectric strength	$\leq \pm (0.1\%R + 0.01\Omega)$	450V, 1min, 100V/S
Resistance to solder	$\leq \pm (0.1\%R + 0.01\Omega)$	260°C, 10S
Load life	$\leq \pm (0.5\%R + 0.05\Omega)$	70°C, Pe, 1000h
Vibration	$\leq \pm (0.1\%R + 0.01\Omega)$	0~500Hz, 0.75mm, 98/S ²