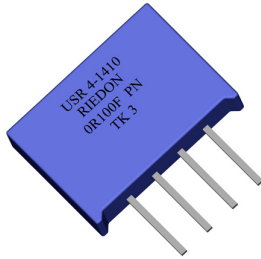


# USR UNR 4-1410

Precision Shunt Resistors



- Resistances from 0.1Ohm to 100Ohms
- Power Rating to 0.8Watt
- Resistance Tolerances to  $\pm 0.01\%$
- TCR to  $\pm 1\text{ppm/K}$
- Load Stability to 0.01%

## SPECIFICATIONS

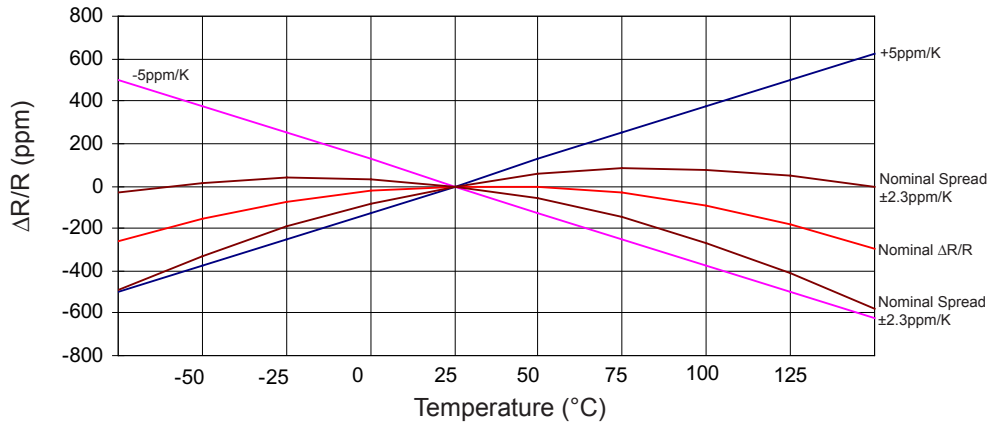
Type	USR 4-1410	UNR 4-1410
Resistance Range	0.1 to 100 Ohms	
Power rating (70°C)	0.8 W	
Tolerances	0.1% / 0.25% / 0.5% / 1%	
from 0.1 Ohms	0.05% / 0.1% / 0.25% / 0.5% / 1%	
from 10.0 Ohms	0.01% / 0.02% / 0.05% / 0.1% / 0.25% / 0.5% / 1%	
from 50.0 Ohms		
Stability	0.01%	
Temperature Coefficient	max. $\pm 5\text{ppm/K}$ (-55 to 155°C) typ. $\pm 3\text{ppm/K}$ (-55 to 125°C) upon request $\pm 1\text{ppm/K}$ (0 to 60°C)	
Insolation Resistance	> 10 GOhm	
Thermal EMF	< 0.1 $\mu\text{V/K}$	
Operating Temperature Range	-55 to 155°C	
Resistor Material	NiCr-Foil	
Substrate	Al <sub>2</sub> O <sub>3</sub>	AlN
Housing	PBTP / Epoxy	
Connector Material	Cu tinned	
Terminals	4	
Notes	Specially designed for applications with fast changing electrical load	

## Ordering Information

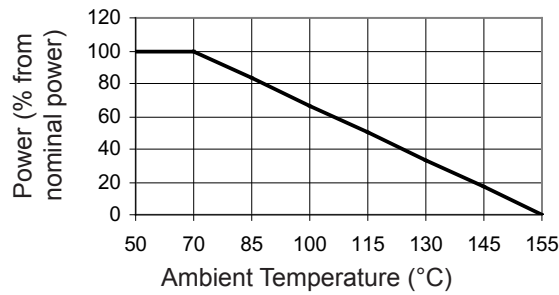
Part Number - Resistance - Tolerance - TCR  
UNR 4-1410 0.1Ohms 0.5% 3ppm

**SPECIFICATIONS** (continued)

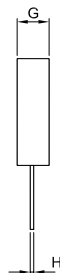
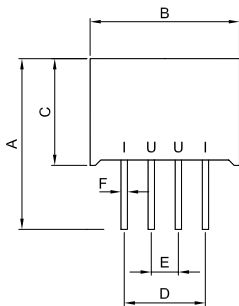
Temperature Coefficient



Derating



Dimensions



Dimension	mm	tol. (±mm)	inches	tol. (±inches)
A	16.00	1.0	0.63	0.039
B	14.00	0.2	0.55	0.008
C	10.00	0.2	0.39	0.008
D	7.62	0.1	0.30	0.004
E	2.54	0.1	0.10	0.004
F	0.50	0.1	0.02	0.004
G	3.00	0.1	0.12	0.004
H	0.25	0.1	0.01	0.004