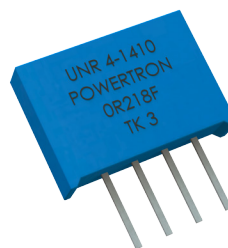


FEATURES

- 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%



RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS			
TYPE		USR 4-1410	UNR 4-1410
Resistance Range		0.1 to 100 Ohms	
Power Rating	Free air 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 (1000h)		0.01	
Shelf Life Stability		25ppm / ΔR after 1 year 50ppm / ΔR after 3 year	
Temperature Coefficient		max. $\pm 5\text{ppm/K}$ (-55 to 155°C) typ. $\pm 3\text{ppm/K}$ (-55 to 125°C) upon request $\pm 1\text{ppm/K}$ (25 to 60°C)	
Insulation Resistance		> 10 GOHM	
Thermal EMF		< 0.1 $\mu\text{V/K}$	
Operating Temperature Range		-55 to 155°C	
Resistor Material		NiCr-Foil	
Substrate		Al ₂ O ₃	AlN
Housing		PBTP / Epoxy	
Connector Material		Cu / tinned	
Terminals		4 (standard contact D)	
Notes		Specially designed for applications with fast changing electrical load	

ORDERING INFORMATION
Part Number - Resistance - Contact - Tolerance - TCR (if not standard)
UNR 4-1410 0R100 D 0.5%
UNR 4-1410 0R100 D 0.5% 1ppm/K (25 to 60°C)

FIGURE 1 – TEMPERATURE COEFFICIENT

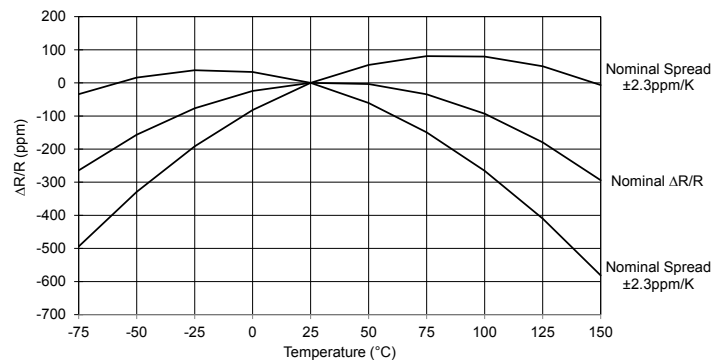


FIGURE 2 – DERATING

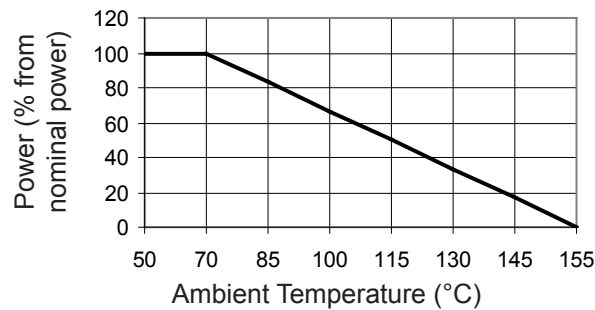
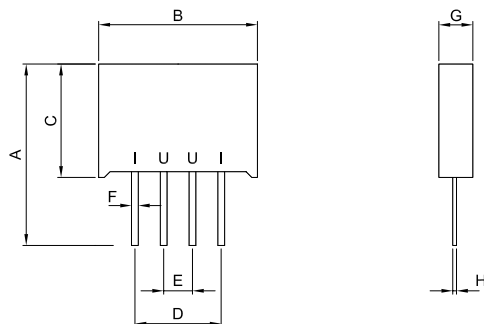


FIGURE 3 – DIMENSIONS in mm (inches)



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



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