

**FEATURES**

- Resistances from 10Ohm to 300kOhms
- Power Rating to 0.8Watt
- Resistance Tolerances to  $\pm 0.01\%$
- TCR to  $\pm 1\text{ppm/K}$
- Load Stability to 0.01%

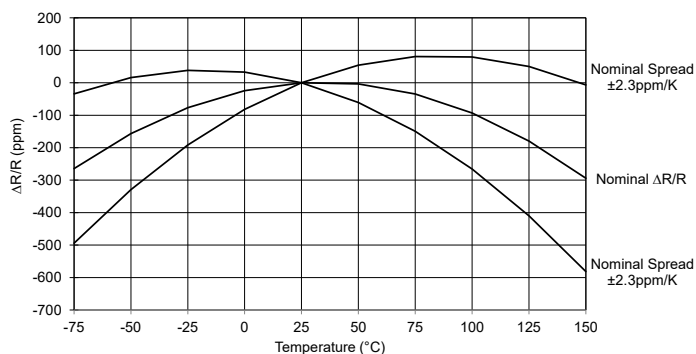


**RoHS\***  
COMPLIANT

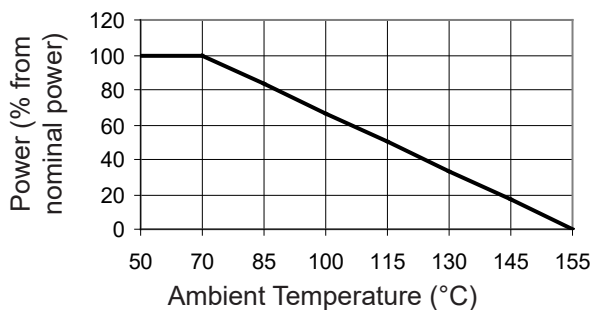
TABLE 1 – SPECIFICATIONS			
TYPE		USR 2-1410	UNR 2-1410
Resistance Range		1.0 Ohm to 300 kOhms	1.0 Ohm to 100 Ohms
Power Rating	Free air 70°C	0.8 W	
Tolerances		0.1% / 0.25% / 0.5% / 1%	
from 1.0 Ohms		0.05% / 0.1% / 0.25% / 0.5% / 1%	
from 5.0 Ohms		0.01% / 0.02% / 0.05% / 0.1% / 0.25% / 0.5% / 1%	
from 25.0 Ohms			
Stability (1000h)		0.01	
Shelf Life Stability		25ppm / $\Delta R$ after 1 year 50ppm / $\Delta R$ 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)	
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		2 (standard contact X / flat leads)	
Notes		Specially designed for applications with fast changing electrical load	

ORDERING INFORMATION
Part Number - Resistance - Contact - Tolerance - TCR (if not standard)
UNR 2-1410 3R700 X 0.5%

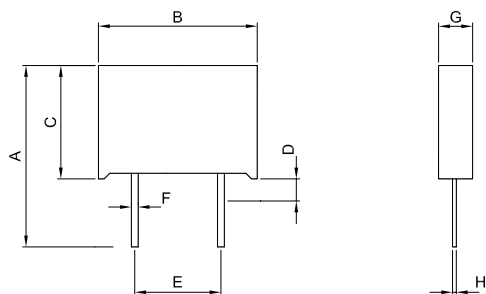
**FIGURE 1 – TEMPERATURE COEFFICIENT**



**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)	2.00 (0.08)
E ±0.1 (±0.004)	7.62 (0.30)
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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