

# USR UNR 2-1410



- **Highest Stability**
- **Near Temperature Independency**
- **Lowest Tolerances (0.01%)**
- **Low Capacitance and Inductance**
- **Customized Resistance Values**

## SPECIFICATIONS ELECTRICAL

	<b>USR 2-1410</b>	<b>UNR 2-1410</b> note <sup>1)</sup>
<b>Resistance Range</b>	: 1R0...300k	1R0 ... 10k
<b>Power Rating</b>	: 0.8 W (70°C)	
<b>Tolerance</b>	:	
<b>from 1R0</b>	: 0.1%, 0.25%, 0.5%, 1%	
<b>from 10R</b>	: 0.05%, 0.1%, 0.25%, 0.5%, 1%	
<b>from 50R</b>	: 0.01%, 0.02%, 0.05%, 0.1%, 0.25%, 0.5%, 1%	
<b>Stability</b>	: 0.01%	
<b>Temperature Coefficient</b>	: max. ±5 ppm/K (-55..155)°C typ. ±3 ppm/K (-55..125)°C upon request ±1 ppm/K (0..60)°C	
<b>Insulation Resistance</b>	: > 10 GOhm	
<b>Thermal EMF</b>	: < 1 µV/K	

## ENVIRONMENTAL

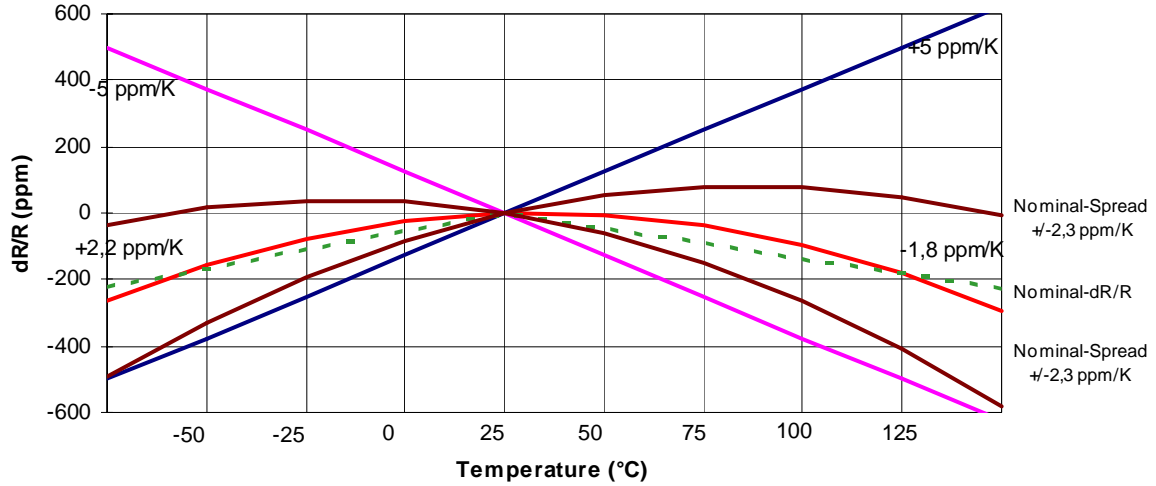
**Operating Temperature Range** : -55°C...155°C

## MECHANICAL

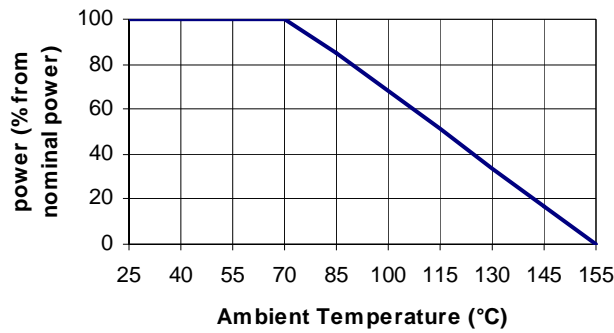
<b>Resistor Material</b>	: NiCr-Foil	
<b>Substrate</b>	: Al <sub>2</sub> O <sub>3</sub>	AlN
<b>Housing</b>	: PBTP / Epoxy	
<b>Connector Material</b>	: Cu tinned 2-pin	

note<sup>1)</sup>: Specially designed for applications with fast changing electrical load.

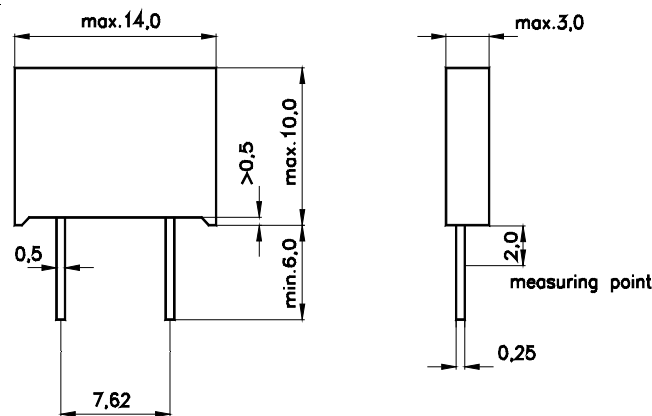
TEMPERATURE COEFFICIENT



DERATING CURVE



DIMENSIONS



Lead X (Standardlead)  
from 100R0 with wire bonding d=0.6mm (contact D)

Dimensions in mm

HOW TO ORDER

USR 2-1410 7K0 D 0.01% TK1

UNR 2-1410 2R5 X 0.5% TK3