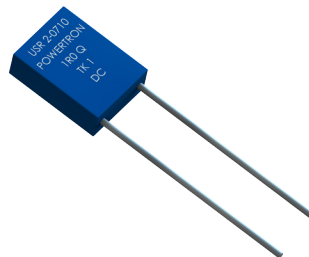


FEATURES

- Resistances from 10Ohm to 150kOhms
- Power Rating to 0.6Watt
- Resistance Tolerances to $\pm 0.005\%$
- TCR to $\pm 1\text{ppm/K}$
- Load Stability to 0.01%



Pb-free
Available
RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS				
TYPE		USR 2-0710		UNR 2-0710
Resistance Range		1.0 Ohms to 100 kOhms	100.0 kOhms to 150 kOhms	1.0 Ohms to 5.0 kOhms
Power Rating	Free air 70°C	0.6W	0.4W	
Tolerances		0.1% / 0.25% / 0.5% / 1% 0.05% / 0.1% / 0.25% / 0.5% / 1% 0.02% / 0.05% / 0.1% / 0.25% / 0.5% / 1% 0.01% / 0.02% / 0.05% / 0.1% / 0.25% / 0.5% / 1% 0.005% / 0.01% / 0.02% / 0.05% / 0.1% / 0.25% / 0.5% / 1%		
Stability		25ppm / ΔR after 1 year 50ppm / ΔR after 3 years		
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) and $\pm 1\text{ppm/K}$ (-55 to 125°C)		
Insulation Resistance		> 10GOhm		
Thermal EMF		< 0.1 $\mu\text{V/K}$		
Operating Temperature Range		-55 to 155°C		
Resistor Material		NiCr		
Substrate		Al ₂ O ₃	AlN	
Housing		PBTP / Epoxy		
Connector Material		Cu / tinned		
Terminals		2 Grid (E) 3.81mm (0.15inches) = D Grid (E) 5.08mm (0.2inches) = J		
Notes		Specially designed for applications with fast changing electrical load		

ORDERING INFORMATION
Part Number - Resistance - Contact - Tolerance - TCR (if not standard)
UNR 2-0710 3R700 J 0.5% 1ppm/K (-55 to 125°C)

FIGURE 1 – TEMPERATURE COEFFICIENT

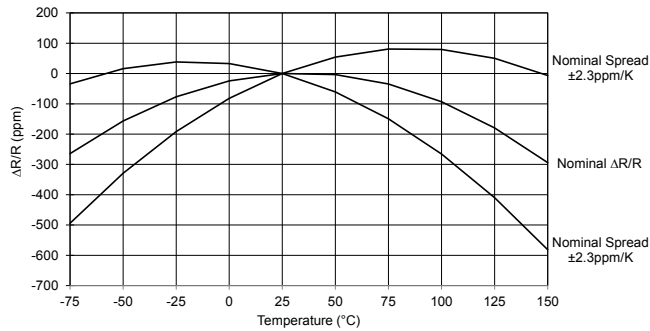


FIGURE 2 – DERATING

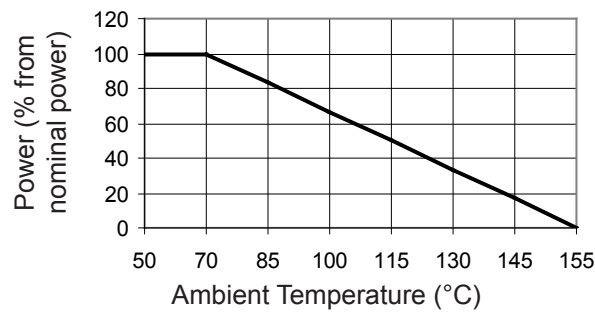
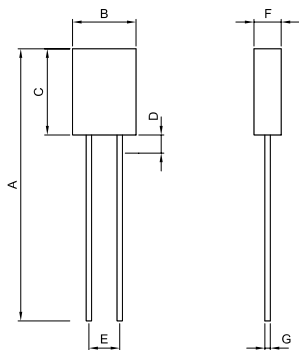


FIGURE 3 – DIMENSIONS in mm (inches)



Dimension	Grid D	Grid J
A ±2.0 (±0.079)	30.00 (1.18)	
B ±0.1 (±0.004)	7.00 (0.28)	
C ±0.2 (±0.008)	9.50 (0.37)	
D ±0.1 (±0.004)	2.00 (0.08)	
E ±0.1 (±0.004)	3.81 (0.15)	5.08 (0.20)
F ±0.1 (±0.004)	3.00 (0.12)	
G ±0.1 (±0.004)	Ø0.60 (Ø0.02)	

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