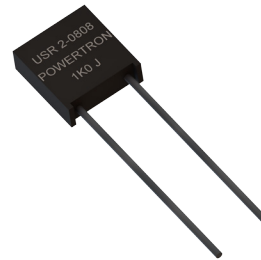


FEATURES

- 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%



RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS			
TYPE		USR 2-0808	
Resistance Range		1.0 Ohms to 100 kOhms	100.0 kOhms to 150 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 (1000h)		0.01%	
Shelf Life 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-Foil	
Substrate		Al ₂ O ₃	
Housing		PBTP / Epoxy	
Connector Material		Cu / tinned	
Terminals		2 Grid (E) 3.81mm (0.15inches) = D Grid (E) 5.08mm (0.2inches) = J	

ORDERING INFORMATION
Part Number - Resistance - Contact - Tolerance - TCR (if not standard)
USR 2-0808 3R700 J 0.5% 1ppm/K (-55 to 125°C)

FIGURE 1 – TEMPERATURE COEFFICIENT

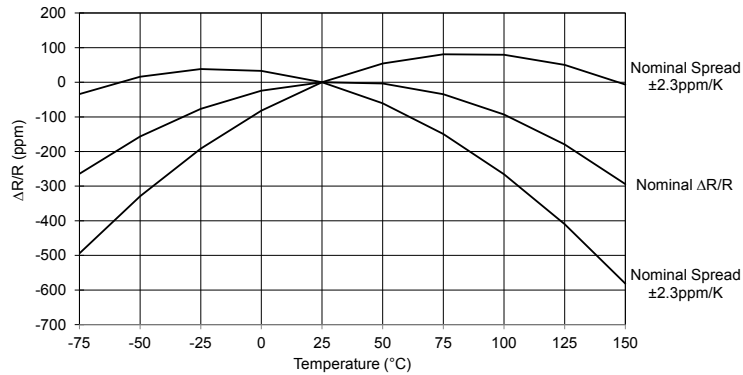


FIGURE 2 – DERATING

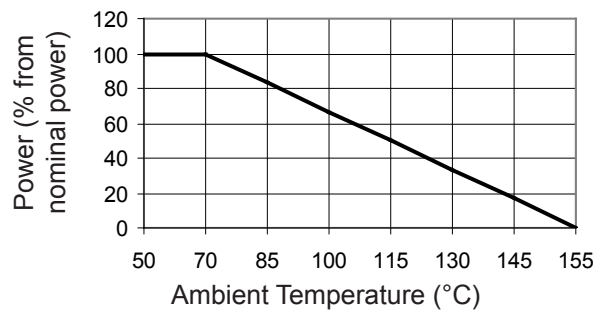
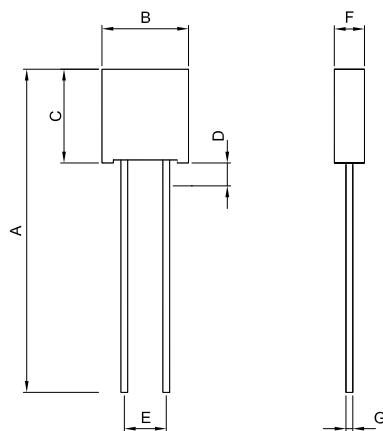


FIGURE 3 – DIMENSIONS in mm (inches)



Dimension	Grid J	Grid D
A ±2.0 (±0.079)	28.00 (1.10)	28.30 (1.11)
B ±0.1 (±0.004)	7.49 (0.29)	7.62 (0.30)
C ±0.2 (±0.008)	8.00 (0.31)	8.30 (0.33)
D ±0.1 (±0.004)	2.00 (0.08)	
E ±0.1 (±0.004)	5.08 (0.20)	3.81 (0.15)
F ±0.1 (±0.004)	2.49 (0.10)	2.67 (0.11)
G ±0.1 (±0.004)	Ø0.64 (Ø0.025)	



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