



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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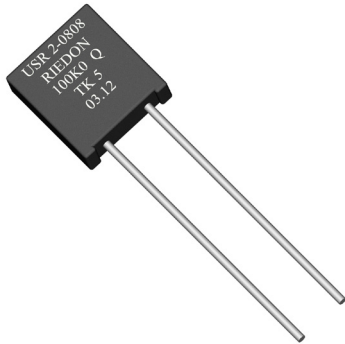
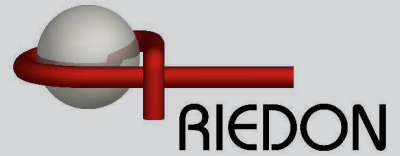
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USR 2-0808

Precision Foil Resistors

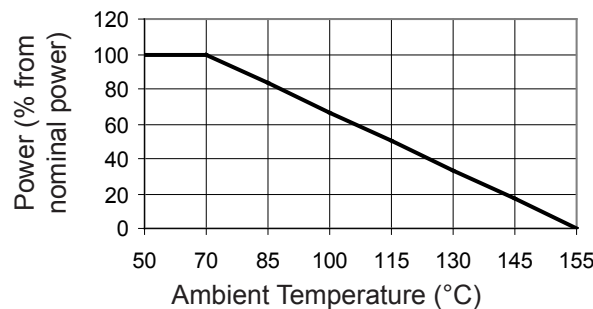


- Resistances from 10hm to 300kOhms
- Power Rating to 0.6 Watts
- Resistance Tolerances to $\pm 0.005\%$
- TCR to $\pm 1\text{ppm/K}$
- Load Stability to 0.01%

SPECIFICATIONS

Type	USR 2-0808
Resistance Range	1.0 to 300 kOhms
Power rating (70°C)	0.6W (<100 kOhms) 0.4W (>100 kOhms)
Tolerances from 1.0 Ohms from 5.0 Ohms from 12.0 Ohms from 25.0 Ohms from 100.0 Ohms	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	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 $\pm 1\text{ppm/K}$ (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_2O_3
Housing	PBTP / Epoxy
Connector Material	Cu tinned
Terminals	2

Derating



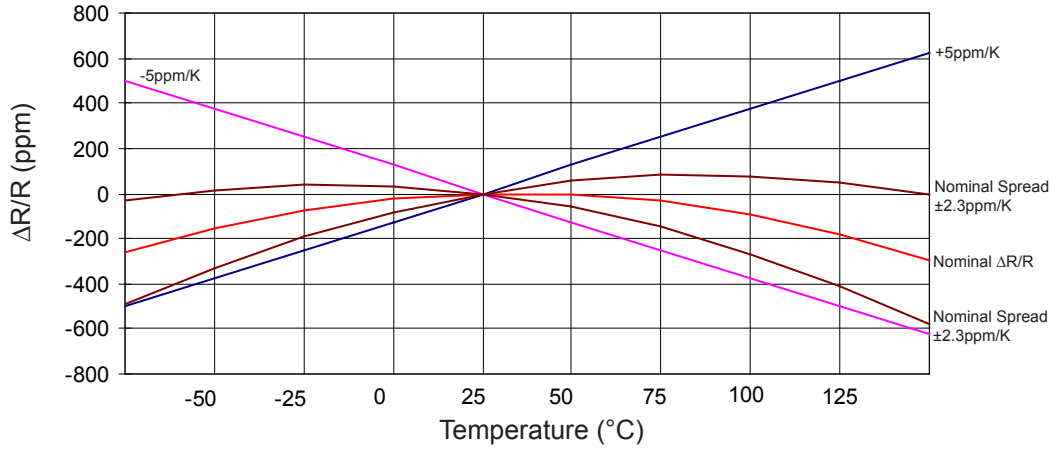
Ordering Information

Part Number - Resistance - Tolerance - TCR
 USR 2-2110 478kOhms D 0.1% 5ppm

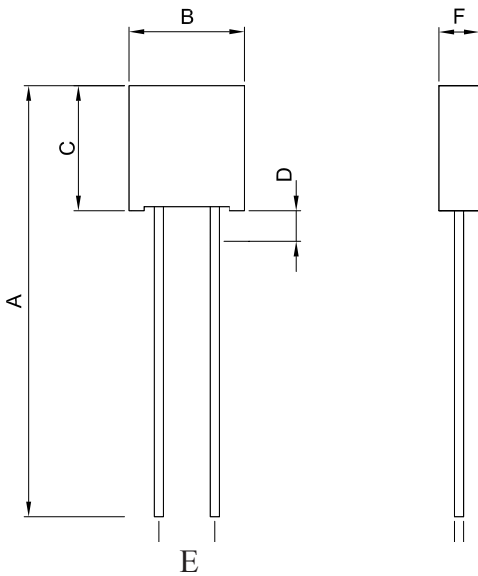
Grid D = 3.81mm (0.15inches) Lead Spacing
 Grid J = 5.08mm (0.2inches) Lead Spacing
 If none specified, Grid D is default

SPECIFICATIONS (continued)

Temperature Coefficient



Dimensions



Type	Dimension	mm	tol. (±mm)	inches	tol. (±inches)
USR 2-0808 Grid D	A	28.30	2.0	1.11	0.079
	B	7.62	0.1	0.30	0.004
	C	8.30	0.2	0.33	0.008
	D	2.00	0.1	0.08	0.004
	E	3.81	0.1	0.15	0.004
	F	2.67	0.1	0.11	0.004
	G (>150kOhms)	Ø0.64 Ø0.3	0.1	Ø0.03 Ø0.012	0.004
USR 2-0808 Grid J	A	28.00	2.0	1.10	0.079
	B	7.49	0.1	0.29	0.004
	C	8.00	0.2	0.31	0.008
	D	2.00	0.1	0.08	0.004
	E	5.08	0.1	0.20	0.004
	F	2.49	0.1	0.10	0.004
	G (>150kOhms)	Ø0.64 Ø0.3	0.1	Ø0.03 Ø0.012	0.004