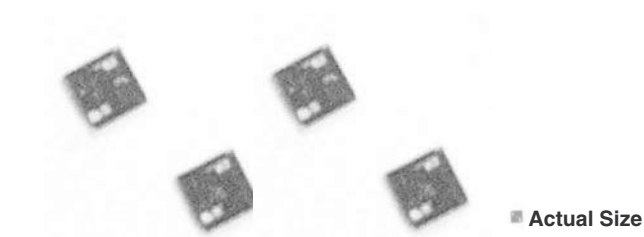


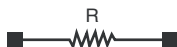
Single Value Chip Resistor



The demand for high precision, high stability microchips for both military and industrial environments is increasing with the growth and sophistication of modern hybrid circuitry.

The RSK 22 series are single value resistor chips. They provide excellent long term stability $\pm 0.05\%$ (2000 h, rated power, at $+70\text{ }^{\circ}\text{C}$) and low noise characteristics $< 35\text{ dB}$.

SCHEMATIC AND PATTERN



FEATURES

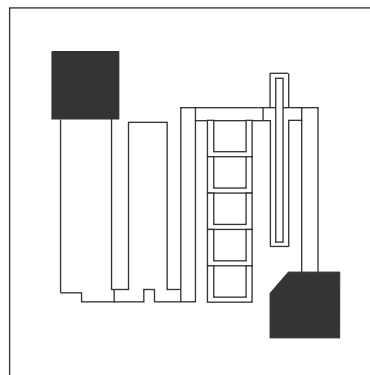
- Small size 20 mil x 20 mil
- Low temperature coefficient 25 ppm/ $^{\circ}\text{C}$
- Excellent stability 0.05 % (2000 h, rated power at $+70\text{ }^{\circ}\text{C}$)
- Wirebondable



RoHS
COMPLIANT
GREEN
[5-2008]*

TYPICAL PERFORMANCE

	ABS
TCR	25 ppm/ $^{\circ}\text{C}$
TOL.	0.1 %



STANDARD ELECTRICAL SPECIFICATIONS

TEST	SPECIFICATIONS	CONDITIONS
SERIES	ULTRAFILM®	
Resistance range	10 Ω to 500 k Ω	
Absolute TCR	$\pm 25\text{ ppm}/^{\circ}\text{C}$	$-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$
Absolute tolerance	$\pm 0.1\%$, $\pm 0.5\%$, $\pm 1\%$	
Power rating	100 mW at $25\text{ }^{\circ}\text{C}$, 50 mW at $+70\text{ }^{\circ}\text{C}$, 25 mW at $+125\text{ }^{\circ}\text{C}$	
Stability	$\pm 0.05\%$ typical, $\pm 0.1\%$ maximum	2000 h at $+70\text{ }^{\circ}\text{C}$ under Pn
Voltage coefficient	$< 0.1\text{ ppm/V}$	
Working voltage	100 V _{DC}	
Operating temperature range	$-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$ (1)	
Storage temperature range	$-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$	(1)
Noise	$< -35\text{ dB}$ typical	MIL-STD-202 Method 308
Thermal EMF	0.01 $\mu\text{V}/^{\circ}\text{C}$	
Shelf life stability	$< 50\text{ ppm}$	

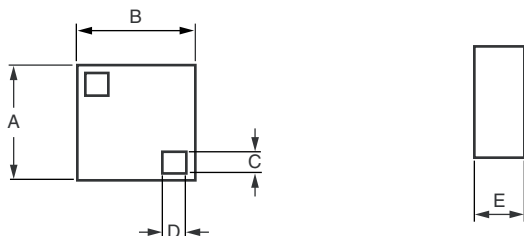
Note:

(1) For temperature up to $200\text{ }^{\circ}\text{C}$, please contact factory.

* Please see document "Vishay Green and Halogen-Free Definitions (5-2008)" <http://www.vishay.com/doc?99902>



DIMENSIONS



DIMENSION	INCHES	MILLIMETERS
A	0.02	0.55 ± 0.10
B	0.02	0.55 ± 0.10
C	0.004	0.10
D	0.004	0.10
E	0.015	0.40 maximum

MECHANICAL SPECIFICATIONS

Resistive element	Nichrome
Passivation	Silicon Nitride
Substrate material	Standard Silicon
Bonding pads	Aluminum
Body	Silicon

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: RSK22N100KD0016 (preferred part number format)

R	S	K	2	2	N	1	0	0	K	D	0	0	1	6
GLOBAL MODEL			VALUE				TOLERANCE			OPTION				
			Decimal R, K or M				B = ± 0.1 % D = ± 0.5 % F = ± 1.0 %			leave blank if no option				

Historical Part Number example: RSK 22N 100K 0.5 % R0016 (will continue to be accepted)

RSK 22N	100K	0.5 %	R0016
HISTORICAL MODEL	VALUE	TOLERANCE	OPTION



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All product specifications and data are subject to change without notice.

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