RoHS

COMPLIANT HALOGEN FREE

GREEN

(5-2008)



Vishay Sfernice

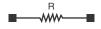
Wirebondable High Precision Single Value Thin Film Chip Resistors



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.

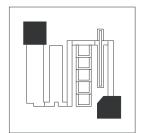
The RMK 22 series are single value resistor chips. They provide excellent long term stability 0.03 % (2000 h, rated power, at + 70 $^{\circ}$ C) and low noise characteristics < 35 dB.

SCHEMATIC AND PATTERN



FEATURES

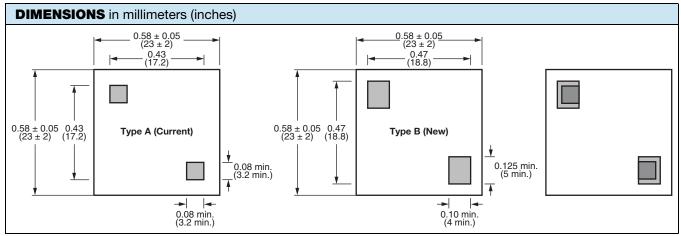
- Small size 20 mils x 20 mils
- Excellent temperature coefficient < 10 ppm/°C
- Excellent stability 0.03 % after 2000 h at Pn at 70 °C
- · Aluminum or gold pads
- Wirebondable
- Tolerance down to 0.01 %
- High temperature (230 °C), see RMKHT datasheet (www.vishay.com/doc?60075)
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>



STANDARD ELECTRICAL SPECIFICATIONS									
MODEL	SIZE	$\begin{array}{c} \text{RESISTANCE} \\ \text{RANGE} \\ \Omega \end{array}$	RATED POWER P _{70 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C			
RMK 22N	0202	50 to 300K	0.05	100	0.01, 0.02, 0.05, 0.1, 0.5, 1	5, 10			

CLIMATIC SPECIFICATIONS				
Operating temperature range	- 55 °C to + 155 °C			
Storage temperature range	- 55 °C to + 155 °C			

MECHANICAL SPECIFICATIONS					
Resistive element	Nichrome				
Passivation	Silicon nitride				
Substrate material	Silicon				
Bonding pads	Aluminum or gold				



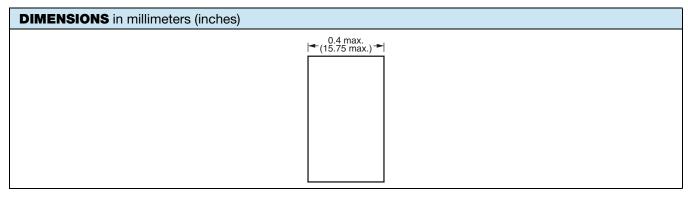
Note

Revision: 11-Mar-14

• Customer can get one or the other part, but positions of pads are similar.

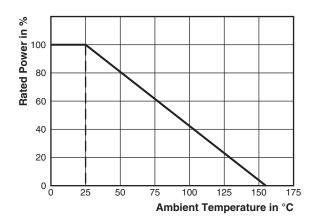


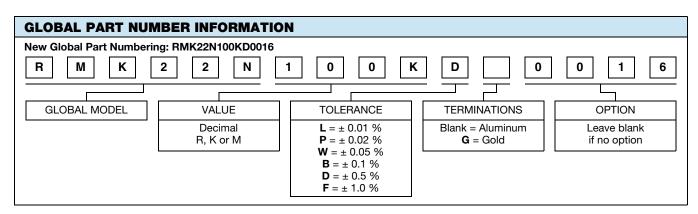
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TECHNICAL SPECIFICATIONS					
TEST	SPECIFICATIONS	CONDITIONS			
Stability	± 0.03 % typical, ± 0.05 % maximum (With gold pads and aluminum wires: ± 0.07 % typical, ± 0.09 % maximum)	2000 h at + 70 °C under Pn			
Voltage coefficient	< 0.1 ppm/V				
Noise	< - 35 dB typical	MIL-STD-202 method 308			
Thermal EMF	< 0.01 μV/°C				
Shelf life stability	50 ppm	1 year at + 25 °C			

DERATING







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Revision: 13-Jun-16 1 Document Number: 91000