RoHS

COMPLIANT

HALOGEN

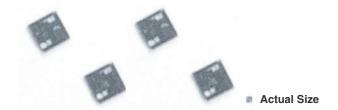
FREE

GREEN (5-2008)

www.vishay.com

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.

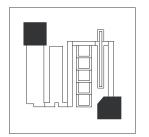
The RMK 22 series are single value resistor chips. They provide excellent long term stability 0.03 % (2000 h, rated power, at +70 $^{\circ}$ C) and low noise characteristics < 35 dB.

SCHEMATIC AND PATTERN



FEATURES

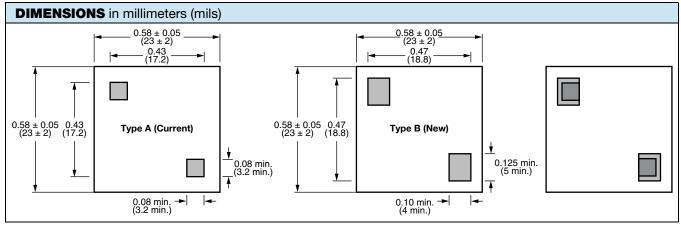
- Small size 20 mils x 20 mils
- Excellent temperature coefficient < 10 ppm/°C
- Excellent stability 0.03 % after 2000 h at Pn at 70 °C
- Aluminum pads
- Wirebondable
- Tolerance down to 0.01 %
- High temperature (230 °C), see RMKHT datasheet (www.vishay.com/doc?60075)
- Material categorization: for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



STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	SIZE	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$	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		

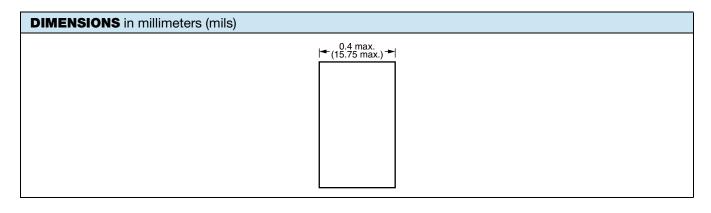
CLIMATIC SPECIFICATIONS				
Operating temperature range	-55 °C to +155 °C			
Storage temperature range	-55 °C to +155 °C			

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



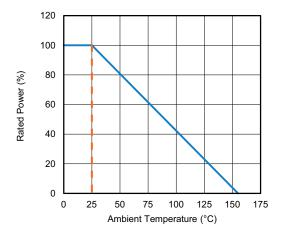
Note

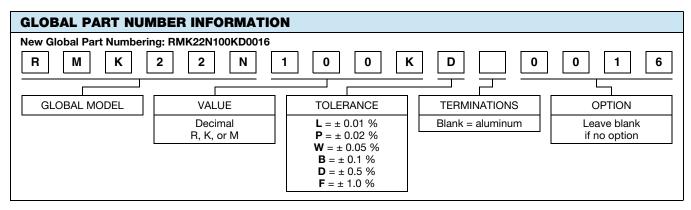
• Customer can get one or the other part, but positions of pads are similar



TECHNICAL SPECIFICATIONS						
TEST	SPECIFICATIONS	CONDITIONS				
Stability	± 0.03 % typical, ± 0.05 % 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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Vishay

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