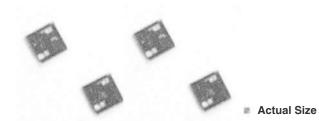
Vishay Sfernice

Single Value 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 °C) and low noise characteristics < 35 dB.

SCHEMATIC AND PATTERN

FEATURES

Small size 20 mil x 20 mil

TYPICAL PERFORMANCE

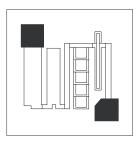
- Excellent temperature coefficient < 10 ppm/°C
- Excellent stability 0.03 %
- Wirebondable

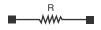


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RoHS COMPLIANT GREEN (5-2008)*

	ABS	
TCR	5 ppm/°C	
TOL.	0.1 %	





STANDARD ELECTRICAL SPECIFICATIONS				
TEST	SPECIFICATIONS	CONDITIONS		
MATERIAL	ULTRAFILM®			
Resistance range	R = 50 Ω to 300 k Ω			
TCR	± 5 ppm/°C typical, ± 10 ppm/°C maximum	- 55 °C to + 155 °C maximum		
Absolute tolerance	± 0.1 %, ± 0.5 %, ± 1.0 %			
Power rating	50 mW	at + 70 °C		
Stability	± 0.03 % typical, ± 0.05 % maximum	2000 h at + 70 °C under Pn		
Voltage coefficient	< 0.1 ppm/V			
Working voltage	100 V _{DC}			
Operating temperature range	- 55 °C to + 155 °C ⁽¹⁾			
Storage temperature range	- 55 °C to + 155 °C			
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		

Note:

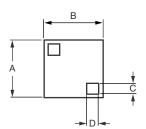
 $^{(1)}$ For temperature up to 200 °C, please consult factory.

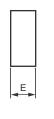
* Please see document "Vishay Green and Halogen-Free Definitions (5-2008)" http://www.vishay.com/doc?99902



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DIMENSIONS





DIMENSION	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
А	0.021	0.022	0.54	0.56
В	0.021	0.022	0.54	0.56
С	0.004		0.10	
D	0.004		0.10	
E			0.158	0.40

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

GLOBAL PART NUMBER INFORMATION							
New Global Part Numbering: RMK22N100KD0016 (preferred part number format)							
R M K 2 2 N 1 0 0 K D 0 0 1 6							
	[]						
GLOBAL MODEL	VALUE	TOLERANCE	OPTION				
	Decimal R, K or M		leave blank if no option				
Historical Part Number example: RMK 22N 100K 0.5 % R0016 (will continue to be accepted)							
RMK 22N	100K	0.5 %	R0016				
HISTORICAL MODEL	VALUE	TOLERANCE	OPTION				



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