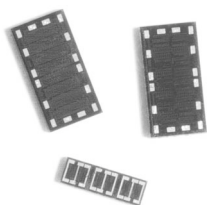


Silicon, Standard Resistor Arrays



Actual Size

Manufactured in ULTRAFILM® technology, these resistor network chips have a high level of integration, wide ohmic value range, very low temperature coefficient which are unequalled on the market today. Laser trimming can provide excellent precision.

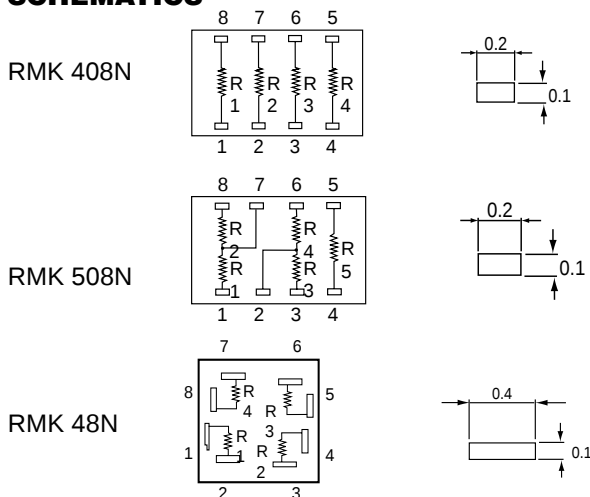
FEATURES

- High precision tolerances
- Very low temperature coefficient
- Excellent stability

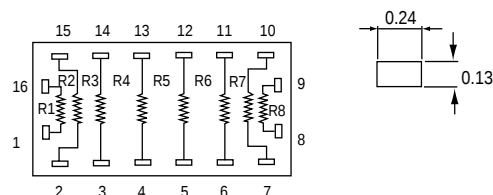
TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	5	1
	ABS	RATIO
TOL	0.1	0.01

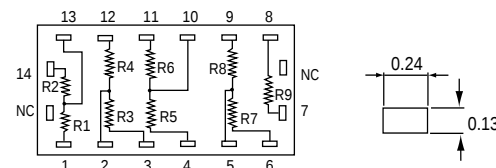
SCHEMATICS



RMK 816N



RMK 914N



STANDARD ELECTRICAL SPECIFICATIONS

TEST	SPECIFICATIONS	CONDITIONS
SERIES	48N, 408N, 508N, 816N, 914N	
TCR:	Tracking $\pm 1 \text{ ppm}/^\circ\text{C}$ typical/ $\pm 2 \text{ ppm}/^\circ\text{C}$ Max.	- 55°C to + 125°C
	Absolute $\pm 10 \text{ ppm}/^\circ\text{C}$ Max./ $\pm 5 \text{ ppm}/^\circ\text{C}$ Max.	- 55°C to + 125°C/0°C to 70°C
Tolerance:	Ratio $\pm 0.05\%$, $\pm 0.02\%$, $\pm 0.01\%$	
	Absolute $\pm 1.0\%$, $\pm 0.5\%$, $\pm 0.25\%$, $\pm 0.1\%$	
Power Rating: (0 W at +155°C)	48N = 125mW, 250mW	at + 70°C
	48N = 50mW, 125mW	at + 125°C
Stability	< 300ppm (after 2000 hrs Pn at + 70°C)	2000 hrs @ + 70°C under
Voltage Coefficient	< 0.1ppm/Volt	
Working Voltage	100V	
Operating Temperature Range	- 55°C to + 155°C*	
Storage Temperature Range	+ 70°C	
Noise	< - 35dB	
Thermal EMF	0.01μV/°C	
Shelf Life Stability	50ppm	1 year @ + 25°C

*For 200°C operations please consult factory.

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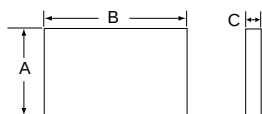


RMK 408N, 508N, 48N, 816N, 914N

Silicon, Standard Resistor Arrays

Vishay Thin Film

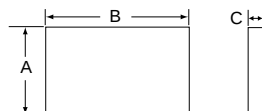
RMK 408N



DIMENSIONS in millimeters

DIMENSION	MILLIMETERS
A	1.6 ± 0.1
B	2.6 ± 0.1
C	0.4 Max.

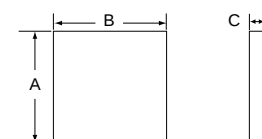
RMK 508N



DIMENSIONS in millimeters

DIMENSION	MILLIMETERS
A	1.6 ± 0.1
B	2.6 ± 0.1
C	0.4 Max.

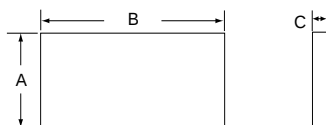
RMK 48N



DIMENSIONS in millimeters

DIMENSION	MILLIMETERS
A	2.1 ± 0.1
B	2.1 ± 0.1
C	0.4 Max.

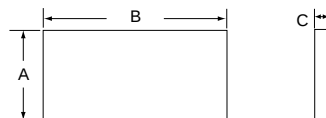
RMK 816N



DIMENSIONS in millimeters

DIMENSION	MILLIMETERS
A	1.8 ± 0.1
B	3.5 ± 0.1
C	0.4 Max.

RMK 914N



DIMENSIONS in millimeters

DIMENSION	MILLIMETERS
A	1.8 ± 0.1
B	3.5 ± 0.1
C	0.4 Max.

MECHANICAL SPECIFICATIONS	
Resistive Element	Nichrome
Substrate Material	Si_3N_4
Body	Silicon
Bonding Pads	Alumina
Passivation	Silicon Nitride

How to Order

Type	Version	Value R_1 *	Absolute Tolerance	Tolerance Ratio
RMK	48	2K ohms	$\pm 0.1\%$	0.05%
	508	1K ohms - 2K ohms		
	48	5K ohms - 10K ohms	$\pm 0.1\%$	0.02
	816	20K ohms - 50K ohms		
	914	100K ohms - 200K ohms	$\pm 0.5\%$	0.01%

* Other values upon request.

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