

## Molded, 50 Mil Pitch, Dual-In-Line Resistor Networks



Actual Size

The RMKM series of small outline surface mount style molded package can accommodate resistor network to your particular application requirements in compact circuit integration. The resistor element is a special nickel chromium film formulation on oxidized silicon.

Utilizing those networks will enable you to take advantage of parametric performances which will introduce in your circuitry high thermal and load life stability (0.05 % abs, 0.02 % ratio, 2000 h at + 70 °C at Pn) together with the added benefits of low noise and rapid rise time.

### FEATURES

- Tight TCR tracking down to 5 ppm/°C
- Monolithic reliability
- Low noise < - 35 dB

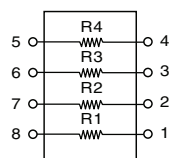


### TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	10 ppm/°C	5 ppm/°C
	ABS	RATIO
TOL.	0.1 %	0.05 %

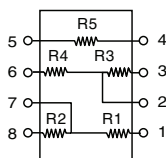
### SCHEMATIC

RMKM S408

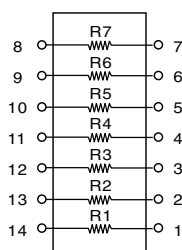


RMKM S508

Case S08

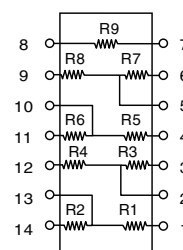


RMKM S714



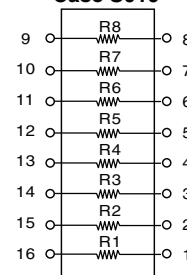
RMKM S914

Case S014



RMKM S816

Case S016

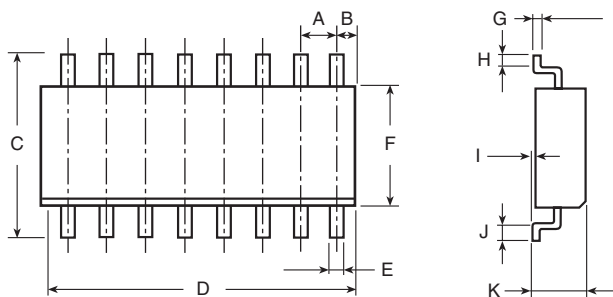


For other configurations, please consult factory.

STANDARD ELECTRICAL SPECIFICATIONS			
TEST		SPECIFICATIONS	CONDITION
Sizes		S08, S014, S016	
Resistance range		500 Ω to 200K	
TCR:	Tracking	± 5 ppm/°C maximum	- 55 °C to + 125 °C
	Absolute	± 15 ppm/°C (- 55 °C to ± 125 °C); ± 10 ppm/°C (0 °C to + 70 °C)	
Tolerance:	Ratio	0.05 % to 0.5 % (0.02 upon request)	
	Absolute	± 0.1 % to ± 1 %	
Power rating:	Resistor	50 mW	
	Package	S08 = 250 mW, S014 = 500 mW, S016 = 500 mW	at + 70 °C
Stability	ΔR Absolute	0.05 %	2000 h at + 70 °C at P
	ΔR Ratio	0.02 %	2000 h at + 70 °C at P
Voltage coefficient		< 0.1 ppm/V	
Working voltage		50 V <sub>DC</sub> maximum	
Operating temperature range		- 55 °C to + 125 °C	
Storage temperature range		- 55 °C to + 155 °C	
Noise		- 35 dB (typical)	MIL-STD-202, Meth. 308
Thermal EMF		0.1 μV/°C	
High temp. storage Shelf life stability	Absolute	0.075 %	2000 h at + 125 °C
	Ratio	0.025 %	2000 h at + 125 °C



## DIMENSIONS AND IMPRINTING



## Imprinting:

VISHAY logo, series, ohmic value,  
tolerance, manufacturing date

DIMENSION	INCHES	MILLIMETERS
A	0.05	Pitch 1.27
B	0.025	0.63 maximum
C (S08)	0.232/0.244	5.9/6.2
C (S14)	0.232/0.244	5.9/6.2
C (S16)	0.248/0.260	6.3/6.6
D (S08)	0.187/0.195	4.75/4.95
D (S14)	0.337/0.344	8.55/8.75
D (S16)	0.386/0.394	9.8/10
E	0.014/0.018	0.35/0.45
F (S08)	0.154/0.157	3.9/4
F (S14)	0.154/0.157	3.9/4
F (S16)	0.154/0.157	3.9/4
G	0.007/0.010	0.185/0.265
H, J	0.015	0.40
I	0.004/0.007	0.1/0.2
K	0.070 maximum	1.75 maximum

## MECHANICAL SPECIFICATIONS

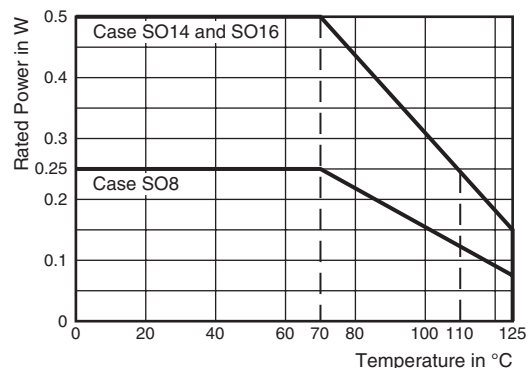
Mechanical protection	Epoxy molded assembly
Terminal leads	100 % tin
Resistive element	Passivated Nichrome
Unit weight: Case S08	0.070 g
Cases S014, S016	0.146 g

## MARKING

## TOLERANCE CODING

A	B	D	F	X
0.1 %	0.1 %	0.5 %	1 %	0.1 %
0.05 %	0.1 %	0.1 %	0.5 %	0.02 % (on request only)

## DERATING CURVE



## GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: RMKMS40810KFDT30 (preferred part number format)

R M K M S 4 0 8 1 0 K F D T 3 0

GLOBAL MODEL	VALUE	ABS. TOLERANCE	RATIO TOLERANCE	PACKAGING	OPTION
RMKMS408 RMKMS508 RMKMS816 RMKMS714 RMKMS914	Decimal: R or K	B = 0.1 % D = 0.5 % F = 1.0 %	B = 0.1 % W = 0.05 % P = 0.02 % L = 0.01 %	T = Tape blank = Tube	Leave blank if no option

Custom Design: CNM 1138

CNM	1138
GLOBAL MODEL	REFERENCE

Historical Part Number example: RMKMS 408 10K 1 % abs 0.5 % ratio T R0030 (will continue to be accepted)

RMKMS 408	10K	1 % abs 0.5 % ratio	T	R0030
HISTORICAL MODEL	VALUE	ABS. TOLERANCE AND RATIO TOLERANCE	PACKAGING T = Tape blank = Tube	OPTION Leave blank if no option



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