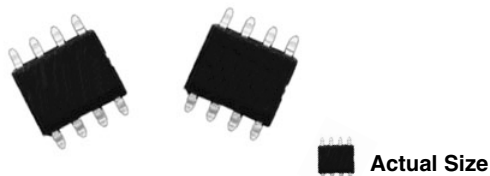


## SMD, Molded, 50 Mil Pitch, Dual-In-Line Resistor Networks



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 % absolute, 0.02 % ratio, 2000 h at + 70 °C at Pn) together with the added benefits of low noise and rapid rise time.

### FEATURES

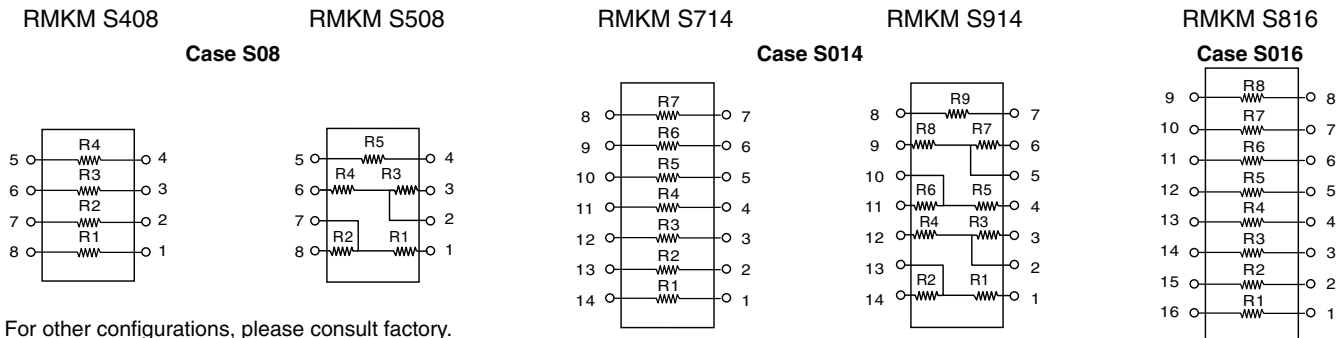
- Tight TCR tracking down to 5 ppm/°C
- Monolithic reliability
- Low noise < - 35 dB
- SMD precision networks
- S08, S014, S016 cases
- MSL 1 to JEDEC J-STD-020C specification



### TYPICAL PERFORMANCE

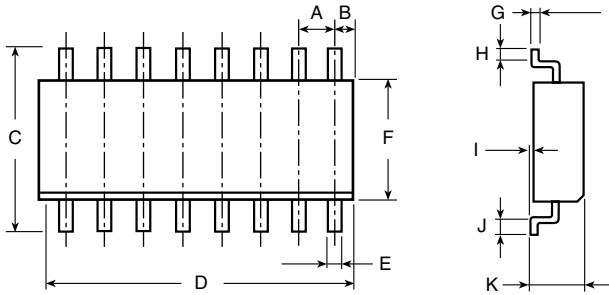
	ABSOLUTE	TRACKING
TCR	10 ppm/°C	5 ppm/°C
	ABSOLUTE	RATIO
TOL.	0.1 %	0.05 %

### SCHEMATIC



For other configurations, please consult factory.

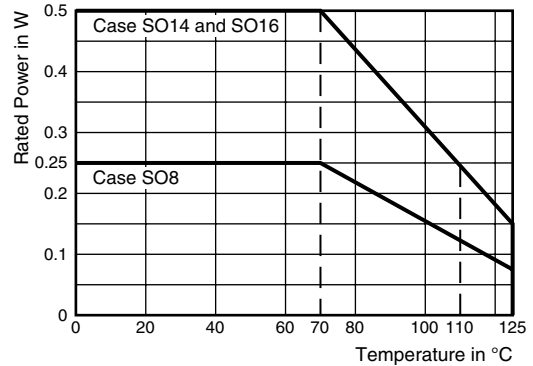
STANDARD ELECTRICAL SPECIFICATIONS			
TEST		SPECIFICATIONS	CONDITION
Sizes		S08, S014, S016	
Resistance range		500 Ω to 200K	
TCR	Tracking	± 5 ppm/°C maximum	- 55 °C to + 125 °C
	Absolute	± 15 ppm/°C (- 55 °C to ± 125 °C); ± 10 ppm/°C (0 °C to + 70 °C)	
Tolerance	Ratio	0.05 % to 0.5 % (0.02 % upon request)	
	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	5.9/6.2
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

**DERATING CURVE**


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)

GLOBAL PART NUMBER INFORMATION					
New Global Part Numbering: <b>RMKMS40810KFDT30</b> (preferred part number format)					
<b>R</b>	<b>M</b>	<b>K</b>	<b>M</b>	<b>S</b>	<b>4</b>
<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>K</b>	<b>F</b>
<b>D</b>	<b>T</b>	<b>3</b>	<b>0</b>		
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 %	T = Tape Blank = Tube	Leave blank if no option
Custom Design: CNM 1138					
CNM	1138				
GLOBAL MODEL	REFERENCE				
Historical Part Number example: <b>RMKMS 408 10K 1 % abs 0.5 % ratio T R0030</b> (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	



## Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.