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

Pb-free

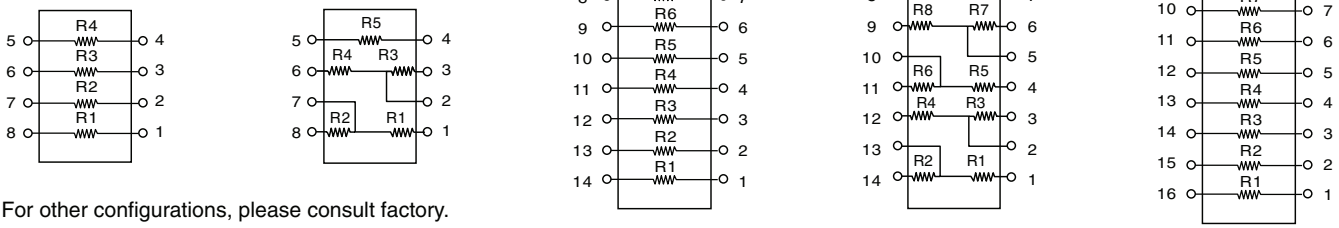
TYPICAL PERFORMANCE

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

SCHEMATIC

RMKM S408 RMKM S508 RMKM S714 RMKM S914 RMKM S816

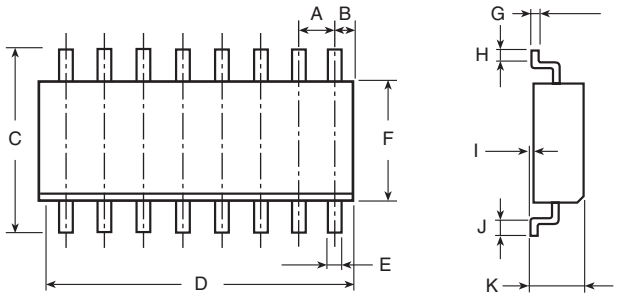
Case S08 **Case S014** **Case S016**



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_{DC} 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

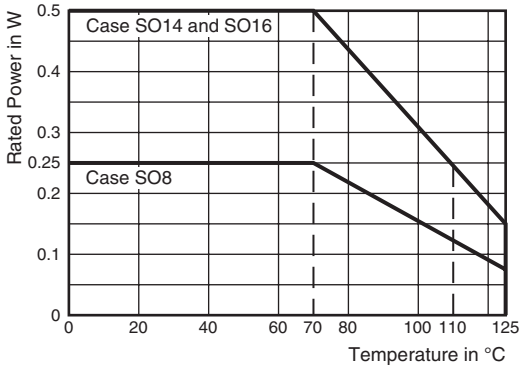
MECHANICAL SPECIFICATIONS

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	OPTION
			T = Tape **blank** = Tube	Leave blank if no option

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