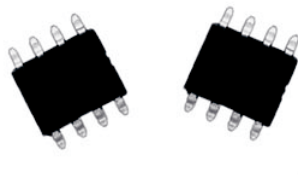


SMD Molded, 50 Mil Pitch, Dual-In-Line Thin Film Resistor Networks



 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 % 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
- SO08, SO14, SO16 cases
- MSL 1 to JEDEC J-STD-020C specification



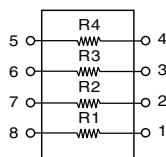
TYPICAL PERFORMANCE

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

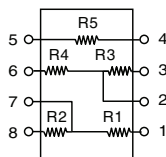
SCHEMATIC

RMKM S408

Case SO08

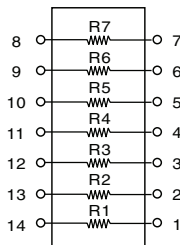


RMKM S508

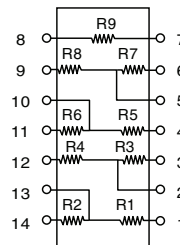


RMKM S714

Case SO14

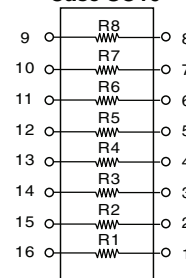


RMKM S914



RMKM S816

Case SO16



For other configurations, please consult factory.

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SIZE	RESISTANCE RANGE Ω	POWER RATING PER RESISTOR W	POWER RATING PER PACKAGE P _{70 °C} W	ABSOLUTE TOLERANCE ± %	RATIO TOLERANCE ⁽²⁾ ± %	ABSOLUTE TCR ⁽¹⁾ ± ppm/°C	RATIO TCR ± ppm/°C
RMKMS	SO08	500 to 200K	0.050	0.250	0.1, 0.5, 1	0.05, 0.1, 0.5	10, 15	5
RMKMS	SO14	500 to 200K	0.050	0.500	0.1, 0.5, 1	0.05, 0.1, 0.5	10, 15	5
RMKMS	SO16	500 to 200K	0.050	0.500	0.1, 0.5, 1	0.05, 0.1, 0.5	10, 15	5

Notes

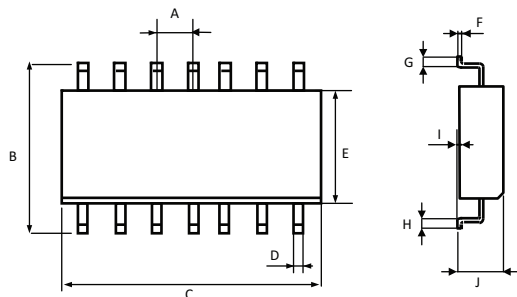
⁽¹⁾ ± 10 ppm/°C at 0 °C to + 70 °C; ± 15 ppm/°C at - 55 °C to ± 125 °C

⁽²⁾ 0.02 % upon request

PERFORMANCES

TEST	SPECIFICATIONS	CONDITION
Stability: ΔR Absolute	0.05 %	2000 h at + 70 °C at P
Stability: 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	0.075 %	2000 h at + 125 °C
	0.025 %	2000 h at + 125 °C

DIMENSIONS AND IMPRINTING



Imprinting:

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

DIMENSION	INCHES	MILLIMETERS
A	Pitch 0.05	Pitch 1.27
B	0.230/0.244	5.84/6.2
C (SO08)	0.189/0.196	4.80/4.98
C (SO14)	0.337/0.344	8.56/8.74
C (SO16)	0.386/0.393	9.80/9.98
D	0.014/0.020	0.35/0.51
E	0.150/0.157	3.81/3.99
F	0.007/0.010	0.17/0.254
G, H	0.016/0.035	0.40/0.89
I	0.004/0.010	0.10/0.254
J	0.061/0.068	1.55/1.73

MECHANICAL SPECIFICATIONS

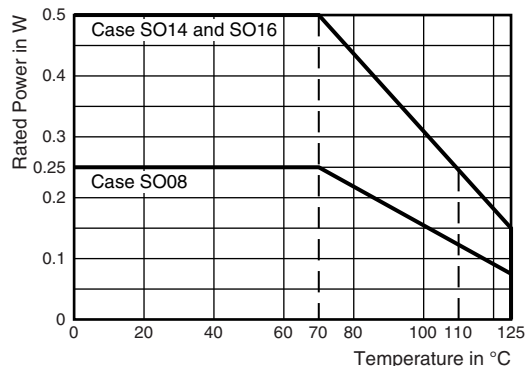
Mechanical protection	Epoxy molded assembly
Terminal leads	100 % tin
Resistive element	Passivated nichrome
Unit weight:	
Case SO08	0.070 g
Cases SO14, SO16	0.146 g

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: **RMKMS40810KFDT99** (preferred part number format)

R M K M S 4 0 8 1 0 K F D T 9 9

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: **RMKMS 408 10K 1 % abs 0.5 % ratio T R0030** (will continue to be accepted)

RMKMS 408	10K	1 % abs 0.5 % ratio	T	R0099
HISTORICAL MODEL	VALUE	ABS. TOLERANCE AND RATIO TOLERANCE	PACKAGING T = Tape Blank = Tube	OPTION Leave blank if no option



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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.