

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



 Actual Size

DESIGN SUPPORT TOOLS

[click logo to get started](#)

3D
Models
Available

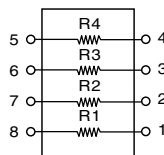
The RMKM series of small outline surface mount style molded package can accommodate resistor network to your particular application requirements in compact circuit integration. The resistor element is a special nickel chromium film formulation on oxidized silicon.

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.

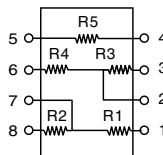
SCHEMATIC

RMKM S408

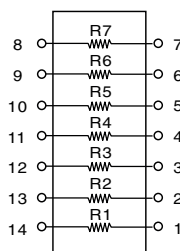
Case SO08



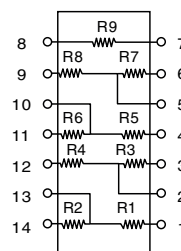
RMKM S508



RMKM S714

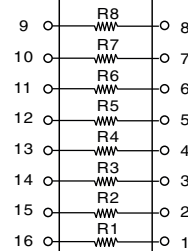


RMKM S914



RMKM S816

Case SO16



For other configurations, please consult factory.

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 %

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

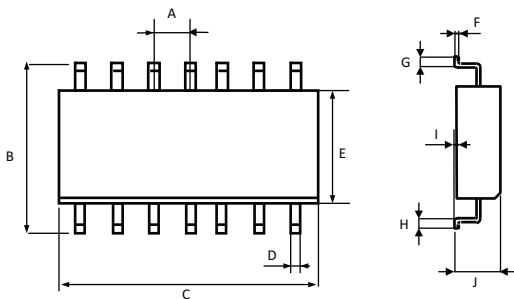
Notes

⁽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

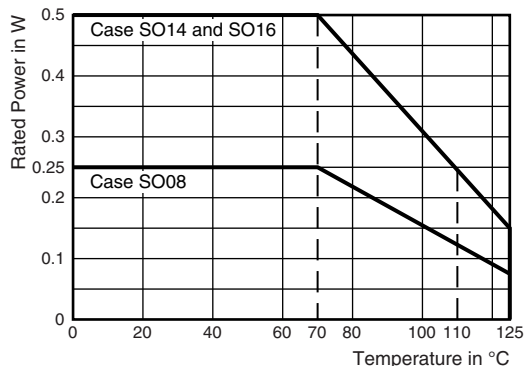
DIMENSIONS AND IMPRINTING

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: RMKMS408-10KFDT99 (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 %		D = 0.5 % 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														
RMKMS 408		10K		1 % abs 0.5 % ratio		T		R0099								
HISTORICAL MODEL		VALUE		ABS. TOLERANCE AND RATIO TOLERANCE		PACKAGING		OPTION								
						T = tape Blank = tube		Leave blank if no option								



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