

SMD, 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 % 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

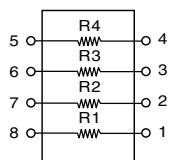


TYPICAL PERFORMANCE

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

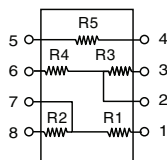
SCHEMATIC

RMKM S408

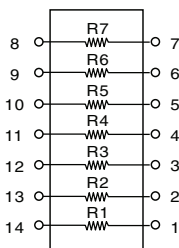


RMKM S508

Case S08

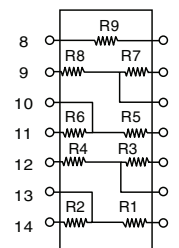


RMKM S714



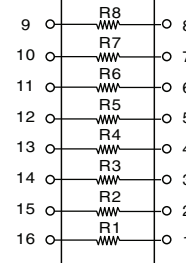
RMKM S914

Case S014



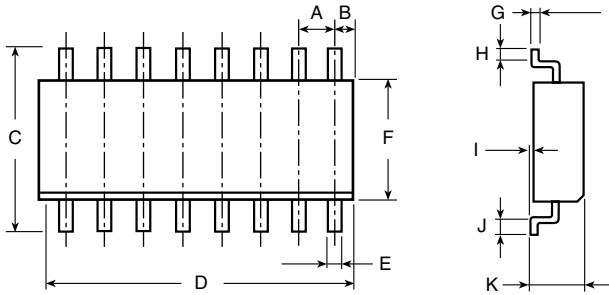
RMKM S816

Case S016



For other configurations, please consult factory.

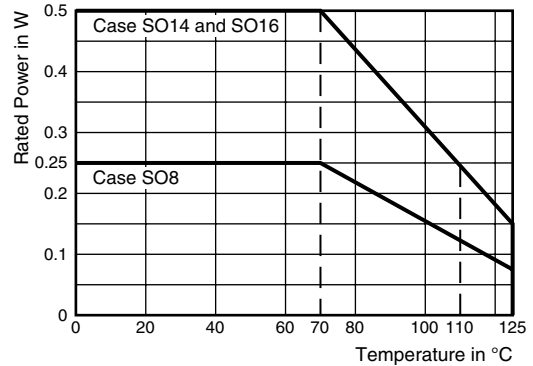
STANDARD ELECTRICAL SPECIFICATIONS			
TEST		SPECIFICATIONS	CONDITION
Sizes		S08, S014, S016	
Resistance range		500 Ω to 200K	
TCR	Tracking	± 5 ppm/°C maximum	- 55 °C to + 125 °C
	Absolute	± 15 ppm/°C (- 55 °C to ± 125 °C); ± 10 ppm/°C (0 °C to + 70 °C)	
Tolerance	Ratio	0.05 % to 0.5 % (0.02 % upon request)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