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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.

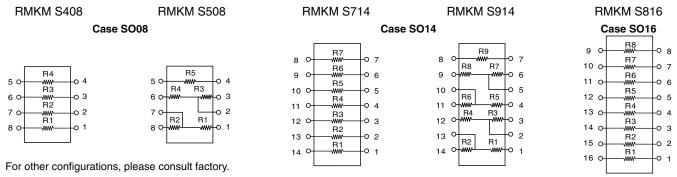
FEATURES

- 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



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

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

(2) 0.02 % upon request

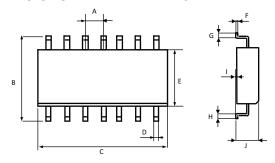
PERFORMANCES			
TEST	SPECIFICATIONS	CONDITION	
Stability: ∆R Absolute	0.05 %	2000 h at + 70 °C at P	
Stability: ∆R Ratio	0.02 %	2000 h at + 70 °C at P	
Voltage coefficient	< 0.1 ppm/V		
Working voltage	50 V _{DC} maximum		
Operating temperature range	- 55 °C to + 125 °C		
Storage temperature range	- 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	0.075 %	2000 h at + 125 °C	
stability	0.025 %	2000 h at + 125 °C	

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DIMENSIONS AND IMPRINTING



Imprinting:

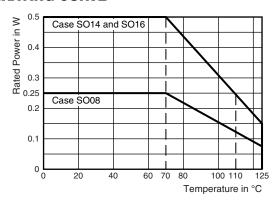
VISHAY logo, series, ohmic value, tolerance, manufacturing date

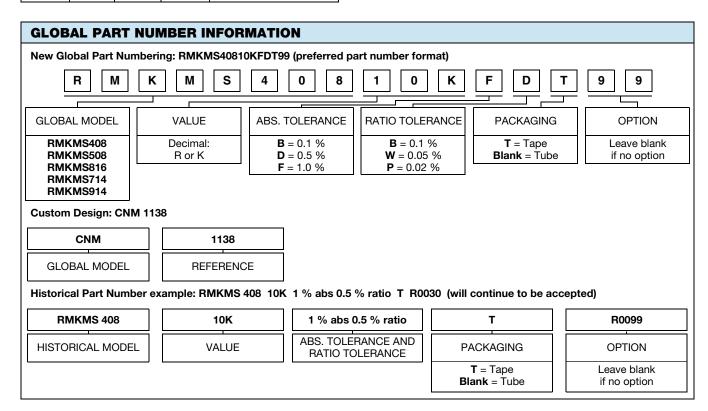
MECHANICAL SPECIFICATIONS			
Mechanical pr	rotection	Epoxy molded assembly	
Terminal leads	3	100 % tin	
Resistive elem	nent	Passivated nichrome	
Unit weight:	Case SO08	0.070 g	
	Cases SO14, SO16	0.146 g	

MARKING				
TOLERANCE CODING				
Α	В	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)

DIMENSION	INCHES	MILLIMETERS
Α	Pitch 0.05	Pitch 1.27
В	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
1	0.004/0.010	0.10/0.254
J	0.061/0.068	1.55/1.73

DERATING CURVE







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