

Vishay Sfernice

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



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



DESIGN SUPPORT TOOLS 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.

TYPICAL PERFORMANCE

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

SCHEMATIC

RMKM S408 **RMKM S508 RMKM S714 RMKM S914 RMKM S816** Case SO08 Case SO14 Case SO16 9 0 -O g R8 R7 10 o R6 -0 6 9 **-**0 6 R6 -0 6 R5 R3 **R**3 10 O -0 5 10 -0 5 R5 ი 3 R6 R5 12 o -0 5 R2 -0 4 R4 11 C 0 2 13 o R3 R1 R3 12 12 0 -0 3 14 o -0 3 R2 13 0 -0 2 13 2 R2 R2 R1 15 o -0 2 R1 For other configurations, please consult factory.

STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	SIZE	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$	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
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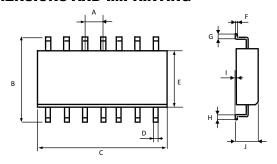
PERFORMANCES				
TEST	SPECIFICATIONS	CONDITION		
Stability: ∆R Absolute	0.05 %	2000 h at +70 °C at P		
Stability: ∆R Ratio	0.02 %	2000 h at +70 °C at P		
Voltage coefficient	< 0.1 ppm/V			
Working voltage	50 V _{DC} maximum			
Operating temperature range	-55 °C to +125 °C			
Storage temperature range	-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 stability	0.075 %	2000 h at +125 °C		
riigii terrip. Storage Srieli lile Stability	0.025 %	2000 h at +125 °C		

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DIMENSIONS AND IMPRINTING

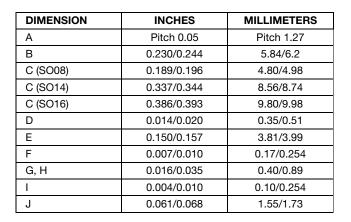


Imprinting:

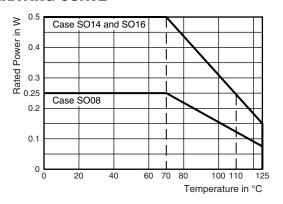
VISHAY logo, series, ohmic value, tolerance, manufacturing date

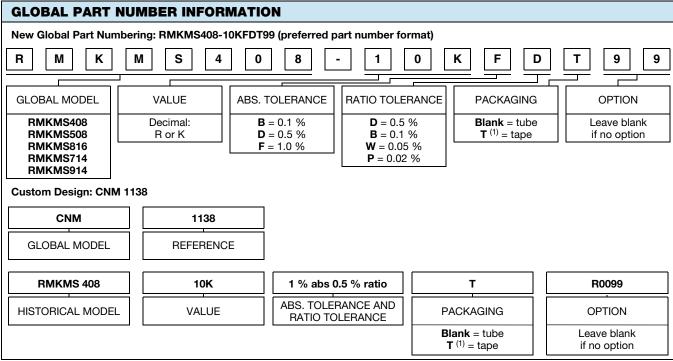
MECHANICAL SPECIFICATIONS				
Mechanical pr	rotection	Epoxy molded assembly		
Terminal leads	S	100 % tin		
Resistive elem	nent	Passivated nichrome		
Unit weight:	Case SO08	0.070 g		
	Cases SO14, SO16	0.146 g		

MARKING				
		TOLER	ANCE CO	DING
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)



DERATING CURVE





Note

• For more information see "Codification of Packaging" table



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Vishay Sfernice

CODIFICATION OF PACKAGING			
CODE 18	PACKAGING		
PLASTIC TAPE (in standard for all sizes)			
Т	100 min., 1 mult		
TA	100 min., 100 mult		
ТВ	250 min., 250 mult		
TC	500 min., 500 mult		
TD	1000 min., 1000 mult		

HISTORICAL PART NUMBER EXAMPLES

- RMKMS816-10KBWT250 (tapes of 250 pieces)
- RMKMS816-1KDBT250 (tapes of 250 pieces)
- CNM1138T250 (tapes of 250 pieces)
- CNM1490T250 (tapes of 250 pieces)

Historical part numbers are not recommended, but can still be used for ordering.



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