



# 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	e SO14	Case SO16
5 0 R4 0 4 R3 0 3 R2 0 2 R1 8 0 WW 0 1	5 0 R5 0 4 R3 6 0 WW 0 3 7 0 R2 R1 8 0 WW 0 1 please consult factory.	8 0	8 O R8 R7 9 O WW O 6 10 O R6 R5 11 O WW O 4 R4 R3 12 O WW WW O 3 13 O R2 R1 14 O WW O 1	9 0 R8

STANDARI	) ELE	CTRICAL SF	ECIFICATION	ONS				
MODEL	SIZE	RESISTANCE RANGE Ω	POWER RATING PER RESISTOR W	POWER RATING PER PACKAGE P <sub>70°C</sub> W	ABSOLUTE TOLERANCE ± %	RATIO TOLERANCE (2) ± %	ABSOLUTE TCR <sup>(1)</sup> ± 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

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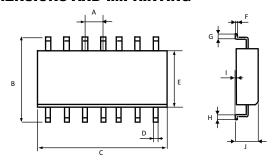
PERFORMANCES				
TEST	SPECIFICATIONS	CONDITION		
Stability: ∆R Absolute	0.05 %	2000 h at +70 °C at P		
Stability: ∆R Ratio	0.02 %	2000 h at +70 °C at P		
Voltage coefficient	< 0.1 ppm/V			
Working voltage	50 V <sub>DC</sub> maximum			
Operating temperature range	-55 °C to +125 °C			
Storage temperature 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		
High temp. Storage Shell life stability	0.025 %	2000 h at +125 °C		

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#### **DIMENSIONS AND IMPRINTING**

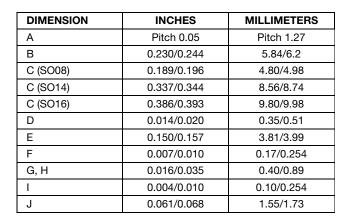


#### Imprinting:

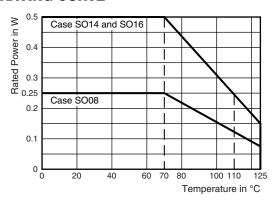
VISHAY logo, series, ohmic value, tolerance, manufacturing date

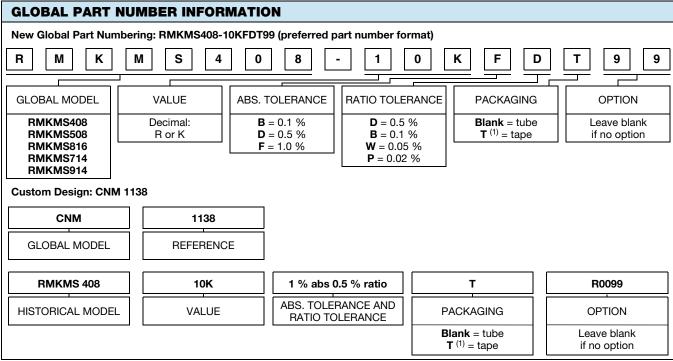
MECHANI	CAL SPECIFICA	TIONS
Mechanical pr	rotection	Epoxy molded assembly
Terminal leads	S	100 % tin
Resistive elem	nent	Passivated nichrome
Unit weight:	Case SO08	0.070 g
	Cases SO14, SO16	0.146 g

MARK	KING			
		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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