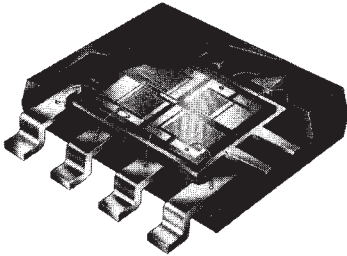




RMKM — S408
— S508
— S714
— S816
— S914

small outline resistor networks **ULTRAFILM**[®]
— thin film technology



The RMK 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 proprietary nickel chromium film formulation on oxydized 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 together with the added benefits of low noise and rapid rise time.

These S08/14/16 leads package will bring you :

- **LOW T.C.**
- **TIGHT T.C. TRACKING**
- **MONOLITHIC RELIABILITY**
- **LOW NOISE**
- **RAPID RISE TIME**
- **LOW COST**

RMKM S...

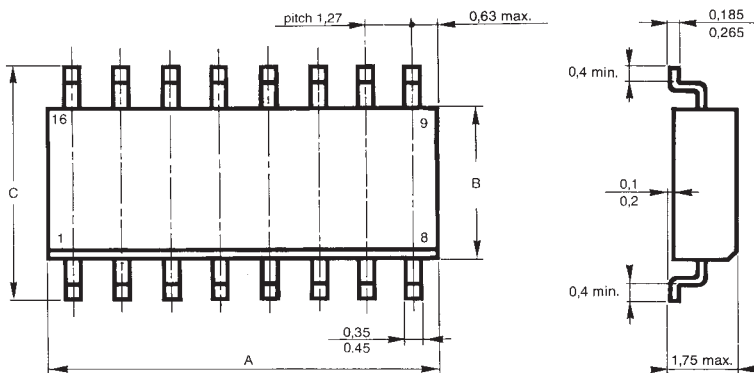


Fig. 1

Dimensions in mm.

Table 1

Case	A	B	C
S08	4,75/4,95	3,9/4	5,9/6,2
S014	8,55/8,75	3,9/4	5,9/6,2
S016	9,8/10	3,9/4	6,3/6,6

SPECIFICATIONS

MECHANICAL

MECHANICAL PROTECTION... epoxy molded assembly
RESISTIVE ELEMENT... nickel chromium film
TERMINAL LEADS... tinned
UNIT WEIGHT S08... 0,070 g case S08
0,146 g cases S014, S016

ENVIRONMENTAL

OPERATING TEMPERATURE
RANGE... -55°C to +125°C
CLIMATIC CATEGORY... 55 / 125 / 56

ELECTRICAL

RESISTANCE VALUE RANGE... 500 Ω to 200 k Ω
ABSOLUTE TOLERANCE... $\pm 0,1\%$ to $\pm 1\%$
TOLERANCE RATIO... 0,5% to 0,05%
POWER RATING... case S08 250 mW at +70°C
cases S014 500 mW at +70°C
S016

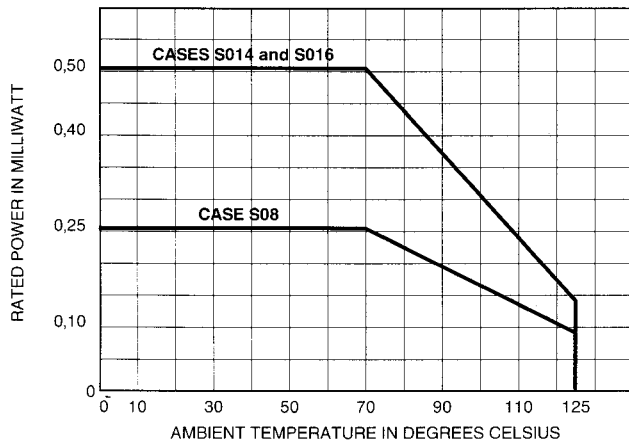
NOMINAL TEMPERATURE
COEFFICIENT... ± 15 ppm/°C (-55°C to +125°C)
 ± 10 ppm/°C (0°C to +70°C)
TCR TRACKING... 5 ppm/°C max.
(-55°C to +125°C)

LIMITING ELEMENT VOLTAGE... 50 V_{dc} max.
VOLTAGE COEFFICIENT OF RESISTANCE... <0,1 ppm/V
NOISE INDEX... -45 dB typical, -35 dB max.
in accordance with
MIL-STD 202 Method 308

POWER RATING CHART

Thermal performances of S0 packages are dependent upon substrate material, chip size, mounting process, chip area, die attach and lead frame material characteristics.

Diagram 1



SOLDERING

The device can withstand a wave soldering temperature of +260°C for 10 seconds or vapor phase soldering temperature which are somehow lower.

MARKING

Printed:

- SFERNICE trademark, series, ohmic value, tolerance, manufacturing date.

TOLERANCE CODE

Table 2

CODE	A	B	D	F
ABSOLUTE and RATIO TOLERANCES	±0,1%	±0,1%	±0,5%	±1%
	0,05%	0,1%	0,1%	0,5%

PERFORMANCES

Table 3

TESTS	CONDITIONS	TYPICAL DRIFTS
RESISTANCE TO SOLDERING HEAT	260°C / 10 s	0,04%
LOAD LIFE	2000 hrs Pr at 70°C	0,075%

FUNCTIONAL DIAGRAM

Table 4

RMKM S408	RMKM S508	RMKM S714	RMKM S914	RMKM S816
Case S08		Case S014		Case S016
<p>Fig. 2</p>	<p>Fig. 3</p>	<p>Fig. 4</p>	<p>Fig. 5</p>	<p>Fig. 6</p>

For other configurations, please consult SFERNICE.

ORDERING PROCEDURE

SERIES	PACKAGE	NUMBER OF RESISTORS	NUMBER OF PINS	OHMIC VALUE	TOLERANCE
RMKM	S	5	08	10 kΩ	B



VISHAY S.A.
International Department
199, Boulevard de la Madeleine
B.P. 1159
F 06003 NICE CEDEX 1
Tel. : (33) 04 93 37 27 27
Fax. : (33) 04 93 37 27 26