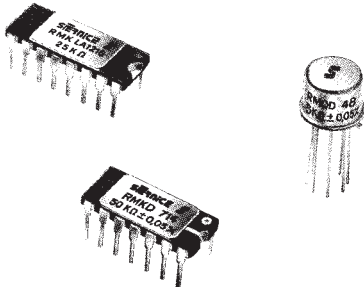




# RMK $\begin{matrix} \text{---} \text{Q} \\ \text{---} \text{D} \end{matrix}$

## ultra precision thin film standard resistive network

– thin film technology **ULTRAFILM**<sup>®</sup>



The superstable RMK nickel-chromium integrated networks are available in a range of standard designs which bring a completely new “state-of-the-art” to precision network performance criteria.

Circuit designers can now incorporate into their circuitry the ultimate in today's performance characteristics as “standards”, without needing to call out specially engineered designs at premium prices.

- **T.C.R. TRACKING**:  $\pm 1$  ppm/°C typical ( $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ )
- **VERY LOW TEMPERATURE COEFFICIENT**  $\pm 10$  ppm/°C
- **ABSOLUTE TOLERANCE**:  $\pm 0,05\%$   
**TOLERANCE RATIO**: 0,02 %
- **HIGH STABILITY**:  $< 300$  ppm max., 2000 hours, Pn  $+70^{\circ}\text{C}$
- **NOISE**:  $-45$  dB
- **HERMETIC CASES**: DIL and T099

### MAIN CHARACTERISTICS

SERIES	RMK Q48	RMK D408	RMK D508	RMK D714	RMK D816	RMK D914	
CONFIGURATION	Same value for all the resistors	4 independent resistors	4 independent resistors	Dual divider feedback network equal value resistors	7 independent resistors	8 independent resistors	Quad divider feedback network equal value resistors
RESISTOR VALUES	500 $\Omega$ < R < 200 k $\Omega$						
ABSOLUTE TOLERANCE	$\pm 0,1\%$ $\pm 0,05\%$ $\pm 0,05\%$						
TOLERANCE RATIO	0,05 %   0,02 %   0,01 %						
NOMINAL T.C.R.	$\pm 10$ ppm/°C max. ( $-55^{\circ}\text{C}$ to $125^{\circ}\text{C}$ ) $\pm 5$ ppm/°C max. ( $0^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ )						
T.C.R. TRACKING	1 ppm/°C typical   2 ppm/°C max.						
POWER RATING AT $+70^{\circ}\text{C}$ PER CASE	125 mW	250 mW	250 mW	250 mW	250 mW	250 mW	
OPERATING TEMPERATURE RANGE	$-55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$						
STORAGE TEMPERATURE RANGE	$-55^{\circ}\text{C}$ to $+155^{\circ}\text{C}$						
LEADS TEMPERATURE (3 seconds solder)	$+350^{\circ}\text{C}$						
LIMITING ELEMENT VOLTAGE	100 V <sub>CC</sub> on R						
NOISE (MIL-STD 202 Method 308)	$-45$ dB typical						

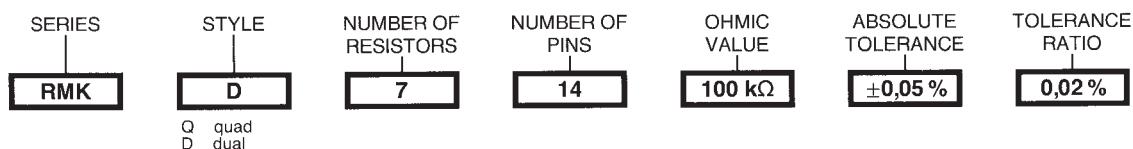
### CUSTOM PACKAGING

Should the standard configurations mentioned above be unsuitable for your application we can offer a range of packaging which includes leadless chip carriers in hermetic ceramics and glassfibre, flat-packs in epoxy or hermetics, and most other modern industrial standard packages. Please consult us.

### PASSIVATION

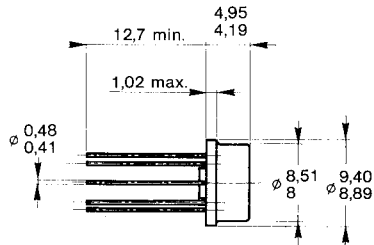
Mineral passivation  
Si<sub>3</sub>N<sub>4</sub>.

### ORDERING PROCEDURE

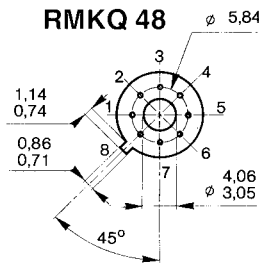


## CONFIGURATIONS

Standard configuration, hermetic case T099

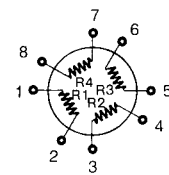


## RMKQ 48

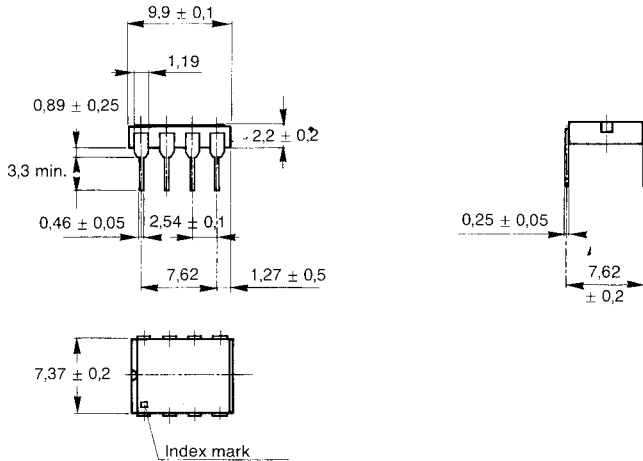


## FUNCTIONAL DIAGRAM

4 equal and independent resistors

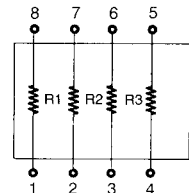


Standard configuration, 8 leads hermetic DIL

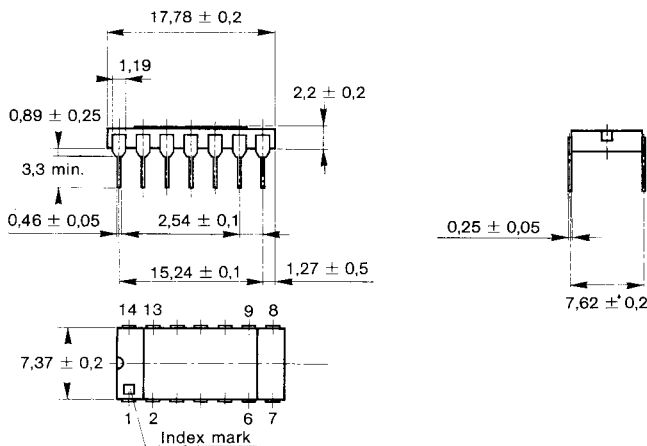


## RMKD 408

4 equal and independent resistors

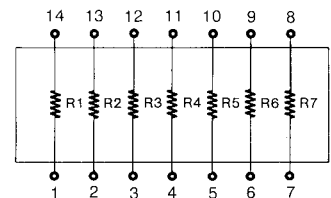


Standard configuration, 14 leads hermetic DIL



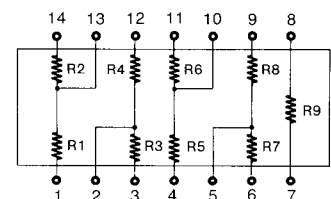
## RMKD 714

7 equal and independent resistors

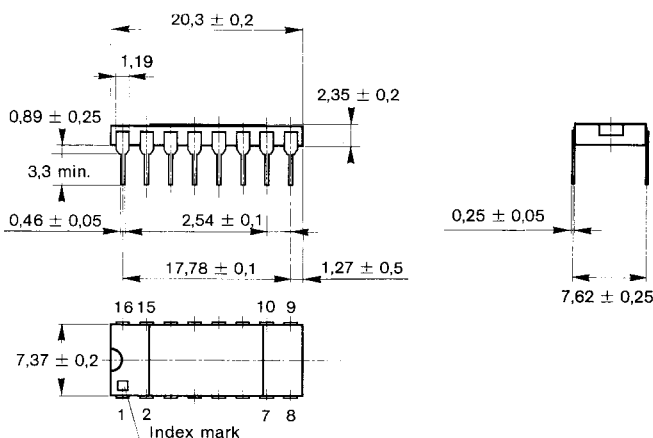


## RMKD 914

Quad divider feedback network with equal value resistors

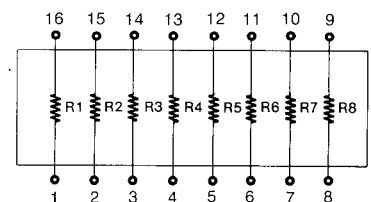


Standard configuration, 16 leads hermetic DIL



## RMKD 816

8 equal and independent resistors



Dimensions in mm.



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