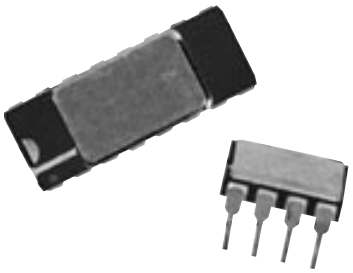
Hermetic, Dual-In-Line Packaged Resistor Networks



Actual Size

The superstable RMKD 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.

FEATURES

- High stability: < 300 ppm maximum, 2000 h at Pn at + 70 °C
- Hermetic cases: dual-in-line

Pb-free

RoHS COMPLIANT

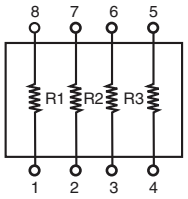
TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	10 ppm/°C	1 ppm/°C
	ABS	**RATIO**
TOL.	0.05 %	0.02 %

SCHEMATIC

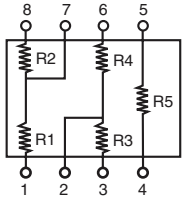
Standard Configuration, 8 Leads Hermetic DIL

RMKD 408



4 Equal and Independent Resistors

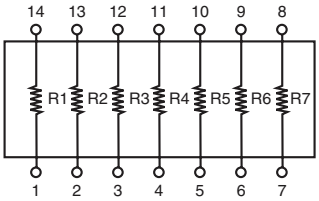
RMKD 508



Dual Divider Feedback Network with Equal Value Resistors

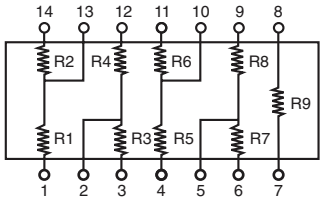
Standard Configuration, 14 Leads Hermetic DIL

RMKD 714



7 Equal and Independent Resistors

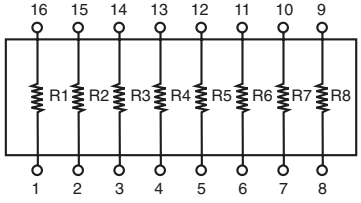
RMKD 914



Quad Divider Feedback Network with Equal Value Resistors

Standard Configuration, 16 Leads Hermetic DIL

RMKD 816

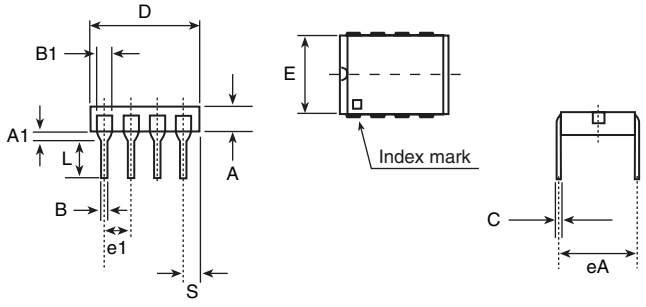


8 Equal and Independent Resistors

STANDARD ELECTRICAL SPECIFICATIONS			
TEST		**SPECIFICATIONS**	**CONDITIONS**
CONFIGURATIONS		**RMKD 408, RMKD 508, RMKD 714, RMKD 816, RMKD 914**	
Resistance range		500 Ω < R < 200 kΩ	
TCR:	**Tracking**	± 1 ppm/°C typical/± 2 ppm/°C maximum	- 55 °C to + 125 °C
	Absolute	± 5 ppm/°C typical	0 °C to + 70 °C
		± 10 ppm/°C maximum	- 55 °C to + 125 °C
Tolerance:	**Absolute**	± 0.10 % ± 0.05 % ± 0.05 %	
	Ratio	± 0.05 % ± 0.02 % ± 0.01 %	
Power rating:	**Package**	125 mW 250 mW 250 mW 250 mW 250 mW	at + 70 °C
Stability (Δ*R* ratio)		< 300 ppm maximum	2000 h at + 70 °C at Pn
Working voltage		100 V_{CC} on R	
Operating temperature range		- 55 °C to + 125 °C	
Storage temperature range		- 55 °C to + 155 °C	
Noise		- 35 dB typical	MIL-STD-202, Model 308
Thermal EMF		< 0.1 µV/°C	

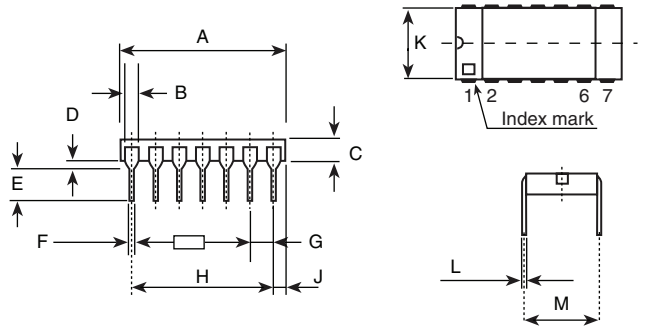
DIMENSIONS

RMKD 408 and RMKD 508



DIMENSION	INCHES	MILLIMETERS
D	0.401	10.20 ± 0.10
B1	0.046	1.19
A1	0.035	0.89 ± 0.25
A	0.086	2.20 ± 0.20
L	0.129 minimum	3.30 minimum
B	0.018	0.46 ± 0.05
e1	0.100	2.54 ± 0.10
S	0.050	1.27 ± 0.50
E	0.290	7.37 ± 0.20
C	0.009	0.25 ± 0.05
eA	0.300	7.62 ± 0.20

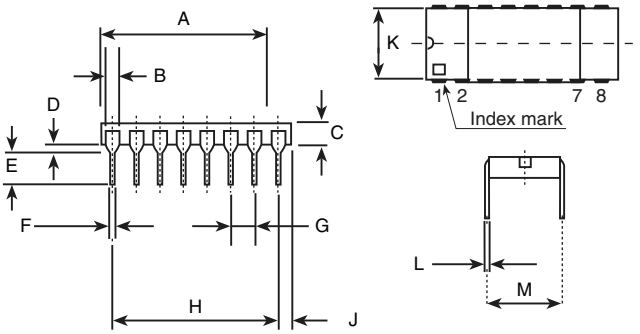
RMKD 714 and RMKD 914



DIMENSION	INCHES	MILLIMETERS
A	0.700	17.78 ± 0.20
B	0.046	1.19
C	0.086	2.20 ± 0.20
D	0.035	0.89 ± 0.25
E	0.129	3.30
F	0.018	0.46 ± 0.05
G	0.100	2.54 ± 0.10
H	0.600	15.24 ± 0.10
J	0.050	1.27 ± 0.50
K	0.290	7.37 ± 0.20
L	0.009	0.25 ± 0.05
M	0.300	7.62 ± 0.20

DIMENSIONS

RMKD 816



DIMENSION	INCHES	MILLIMETERS
A	0.799	20.30 ± 0.20
B	0.046	1.19
C	0.092	2.35 ± 0.20
D	0.035	0.89 ± 0.25
E	0.129	3.30
F	0.018	0.46 ± 0.05
G	0.100	2.54 ± 0.10
H	0.700	17.78 ± 0.10
J	0.050	1.27 ± 0.50
K	0.290	7.37 ± 0.20
L	0.009	0.25 ± 0.05
M	0.300	7.62 ± 0.20

MECHANICAL SPECIFICATIONS

Resistive material	Nichrome
Passivation	Mineral passivation Si_3N_4
Terminals	Gold

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: RMKD408-100KBW0005 (preferred part number format)

R	M	K	D	4	0	8	-	1	0	0	K	B	W	0	0	0	5

GLOBAL MODEL	VALUE	ABS. TOLERANCE	RATIO TOLERANCE	OPTION
RMKD408 **RMKD508** **RMKD816** **RMKD714** **RMKD914**	Decimal: **R**, **K** or **M**	**B** = 0.1 % **W** = 0.05 %	**W** = 0.05 % **P** = 0.02 % **L** = 0.01 %	leave blank if no option

For custom specification:

CNP	1186
GLOBAL MODEL	REFERENCE

Historical Part Number Example: RMKD408 100K 0.1 % 0.05 % e4 (will continue to be accepted)

RMKD408	100K	0.1 %	0.05 %	e4
HISTORICAL MODEL	OHMIC VALUE	ABS. TOLERANCE	RATIO TOLERANCE	RoHS

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Vishay”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay’s terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.