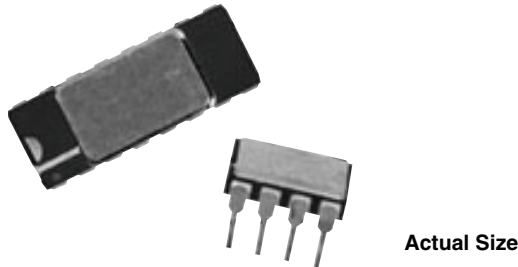




**THE DATASHEET OF
RMKD408-100KBW**



Hermetic, Dual-In-Line Packaged Thin Film Resistor, Through Hole Networks



DESIGN SUPPORT TOOLS

[click logo to get started](#)

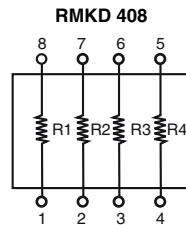


The superstable RMKD nickel-chromium integrated networks are available in a range of standard designs which bring a completely new “state-of-the-art” to precision network performance criteria.

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.

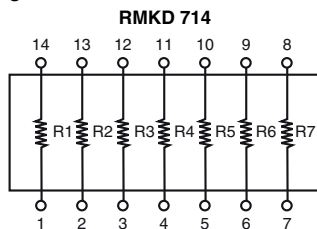
SCHEMATIC

Standard Configuration, 8 Leads Hermetic DIL



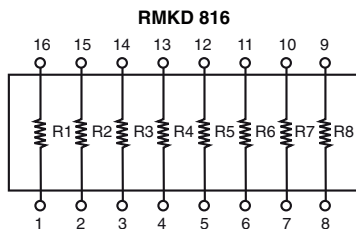
4 Equal and Independent Resistors

Standard Configuration, 14 Leads Hermetic DIL



7 Equal and Independent Resistors

Standard Configuration, 16 Leads Hermetic DIL



8 Equal and Independent Resistors

Notes

- For different values in a network a specific part number is used: CNPxxxx. Please consult Vishay Sfernice
- For values outside ohmic range please consult Vishay Sfernice

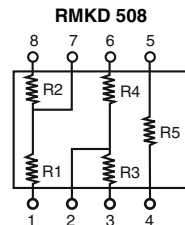
FEATURES

- 500 Ω to 200 kΩ
- High stability: < 300 ppm maximum, 2000 h at Pn at +70 °C
- Gold terminal
- Hermetic cases: Dual-in-line
- Through hole
- Custom available (CNP)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

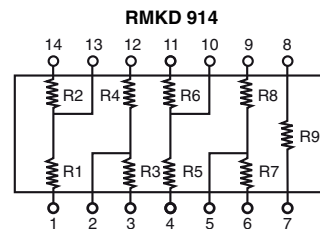


TYPICAL PERFORMANCE

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



Dual Divider Feedback Network with Equal Value Resistors



Quad Divider Feedback Network with Equal Value Resistors

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	RESISTANCE RANGE Ω	POWER RATING ⁽¹⁾ W	ABSOLUTE TOLERANCE \pm %	RATIO TOLERANCE %	ABSOLUTE TCR ⁽²⁾ \pm ppm/ $^{\circ}$ C	RATIO TCR ⁽³⁾ \pm ppm/ $^{\circ}$ C
RMKD 408	500 to 200K	0.125	0.05, 0.1	0.01, 0.02, 0.05	5, 10	1, 2
RMKD 508	500 to 200K	0.250	0.05, 0.1	0.01, 0.02, 0.05	5, 10	1, 2
RMKD 714	500 to 200K	0.250	0.05, 0.1	0.01, 0.02, 0.05	5, 10	1, 2
RMKD 816	500 to 200K	0.250	0.05, 0.1	0.01, 0.02, 0.05	5, 10	1, 2
RMKD 914	500 to 200K	0.250	0.05, 0.1	0.01, 0.02, 0.05	5, 10	1, 2

Notes

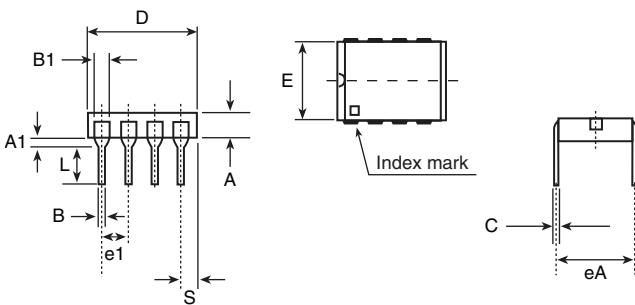
- (1) Per Package at +70 $^{\circ}$ C
 (2) \pm 5 ppm/ $^{\circ}$ C typical at 0 $^{\circ}$ C to +70 $^{\circ}$ C, \pm 10 ppm/ $^{\circ}$ C maximum at -55 $^{\circ}$ C to +155 $^{\circ}$ C
 (3) At -55 $^{\circ}$ C to +155 $^{\circ}$ C

PERFORMANCES

TEST	SPECIFICATIONS	CONDITIONS
CONFIGURATIONS	RMKD 408, RMKD 508, RMKD 714, RMKD 816, RMKD 914	
Stability (ΔR ratio)	< 300 ppm maximum	2000 h at +70 $^{\circ}$ C at Pn
Working voltage	100 V _{CC} on R	
Operating temperature range	-55 $^{\circ}$ C to +155 $^{\circ}$ C	
Storage temperature range	-55 $^{\circ}$ C to +155 $^{\circ}$ C	
Noise	-35 dB typical	MIL-STD-202, model 308
Thermal EMF	< 0.1 μ V/ $^{\circ}$ C	

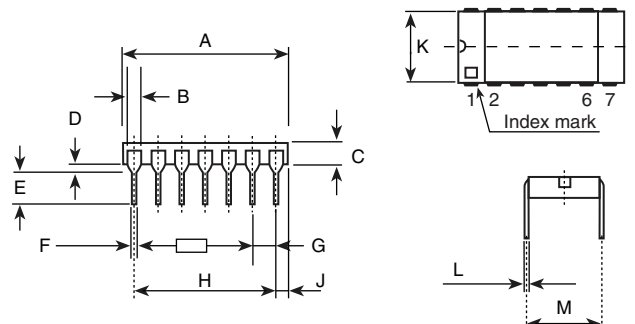
DIMENSIONS

RMKD 408 and RMKD 508



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

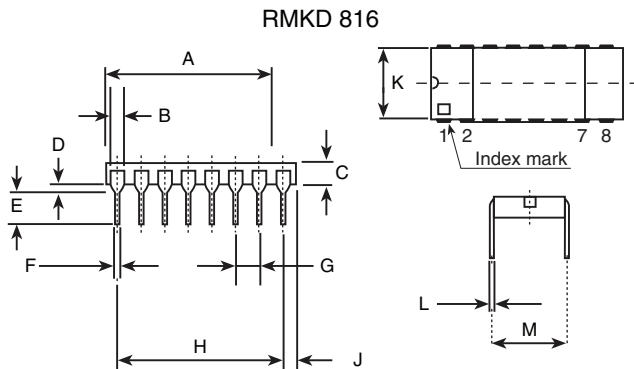
RMKD 714 and RMKD 914



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



DIMENSIONS



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 Si3N4
Terminals	Gold

Option: tin / silver plating: option 0076

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: **RMKD408-100KBW0099** (preferred part number format)

R	M	K	D	4	0	8	-	1	0	0	K	B	W	0	0	9	9
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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	085
GLOBAL MODEL	REFERENCE

Reference is assigned by Vishay Sfernice

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



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