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RMKD (CNP)

Vishay Sfernice

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



Actual Size

LINKS TO ADDITIONAL RESO

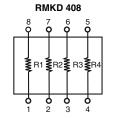


The superstable RMKD nickel-chromium integrated networks are available in a range of standard designs which bring a completely new "state-of-the-art" to precision network performance criteria.

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.

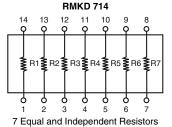
SCHEMATIC

Standard Configuration, 8 Leads Hermetic DIL

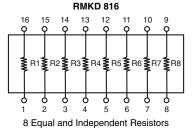


4 Equal and Independent Resistors

Standard Configuration, 14 Leads Hermetic DIL



Standard Configuration, 16 Leads Hermetic DIL



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

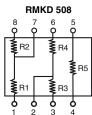
Revision: 06-Feb-2025

FEATURES

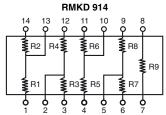
- 500 Ω to 200 kΩ
- High stability: < 300 ppm maximum, 2000 h at Pn at +70 °C
- Gold terminal
- Hermetic cases: Dual-in-line
- Through hole
- Custom available (CNP)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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



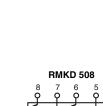
Quad Divider Feedback Network with Equal Value Resistors



COMPLIANT

HALOGEN

FREE



1 For technical questions, contact: sferthinfilm@vishay.com Document Number: 60049

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STANDARD ELECTRICAL SPECIFICATION	S
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MODEL	RESISTANCE RANGE Ω	POWER RATING ⁽¹⁾ W	ABSOLUTE TOLERANCE ± %	RATIO TOLERANCE %	ABSOLUTE TCR ⁽²⁾ ± ppm/°C	RATIO TCR ⁽³⁾ ± ppm/°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

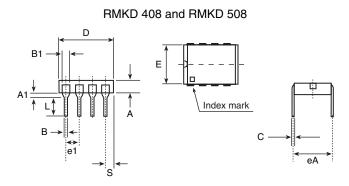
Notes

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

⁽³⁾ At -55 °C to +155 °C

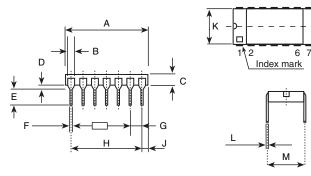
PERFORMANCES		
TEST	SPECIFICATIONS CONDITIONS	
CONFIGURATIONS	RMKD 408, RMKD 508, RMKD 714, RMKD 816, RMKD 914	
Stability (ΔR ratio)	< 300 ppm maximum	2000 h at +70 °C at Pn
Working voltage	100 V _{CC} on <i>R</i>	
Operating temperature range	-55 °C to +155 °C	
Storage temperature range	-55 °C to +155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

DIMENSIONS



DIMENSION	INCHES	MILLIMETERS
D	0.401	10.20 ± 0.10
B1	0.046	1.19
A1	0.035	0.89 ± 0.25
А	0.086	2.20 ± 0.20
L	0.129 minimum	3.30 minimum
В	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
С	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
В	0.046	1.19
С	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
Н	0.600	15.24 ± 0.10
J	0.050	1.27 ± 0.50
К	0.290	7.37 ± 0.20
L	0.009	0.25 ± 0.05
М	0.300	7.62 ± 0.20

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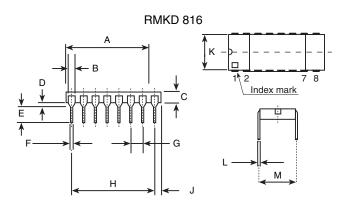
End of Life February-2026 - Alternative Device: HD



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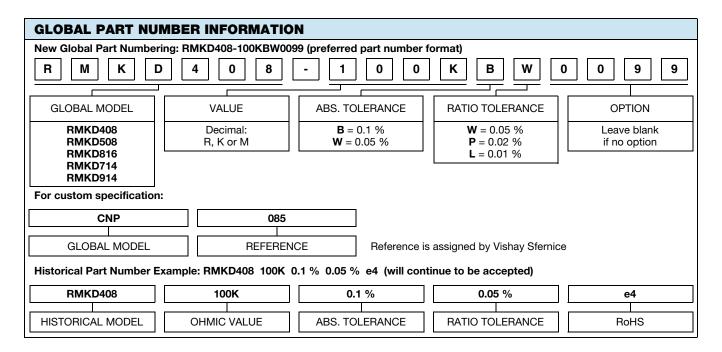
DIMENSIONS



DIMENSION	INCHES	MILLIMETERS
А	0.799	20.30 ± 0.20
В	0.046	1.19
С	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
Н	0.700	17.78 ± 0.10
J	0.050	1.27 ± 0.50
К	0.290	7.37 ± 0.20
L	0.009	0.25 ± 0.05
М	0.300	7.62 ± 0.20

MECHANICAL SPECIFICATIONS		
Resistive material	Nichrome	
Passivation	Mineral passivation Si3N4	
Terminals	Gold	

Option: tin / silver plating: option 0076





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