

Metal Oxide Resistors, Special Purpose, High Voltage



FEATURES

- Low TCR: ± 200 ppm/°C standard; ± 100 ppm/°C; ± 50 ppm/°C available
 Tolerance: ± 1 % standard to 1 GΩ; ± 5 % above 1 GΩ; ± 0.5 % available in ± 50 ppm/°C only. Special tolerance and/or temperature coefficient matching available.



- RoHS' COMPLIANT
- High voltage (up to 8 kV)
 For oil bath or open air operation
- Matched sets available
- Special testing available upon request
- Compliant to RoHS Directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS												
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING			MAXIMUM	RESISTANCE		TEMPERATURE				
		P _{25 °C} ⁽¹⁾ W	P _{70 °C} ⁽¹⁾ W	P _{125 °C} ⁽¹⁾ W	WORKING VOLTAGE ⁽²⁾ V	RANGE ⁽³⁾ Ω	TOLERANCE ± %	COEFFICIENT ± ppm/°C				
RNX025	RNX-1/4	0.5	0.36	0.25	750	1M to 22M	0.5, 1, 2, 5, 10	50				
						1K to 100M	1, 2, 5, 10	100, 200				
						100 to 100K	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
RNX038	RNX-3/8	1.0	0.72	0.5	1.5K	1M to 50M	0.5, 1, 2, 5, 10	50				
						1K to 100M	1, 2, 5, 10	100				
						1K to 1G	1, 2, 5, 10	200				
						100 to 100K	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
RNX050	RNX-1/2	1.2	0.86	0.6	2К	1M to 100M	0.5, 1, 2, 5, 10	50				
						1K to 250M	1, 2, 5, 10	100				
						1K to 2G	1, 2, 5, 10	200				
						100 to 100K	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
RNX075	RNX-3/4	2.0	1.44	1.0	ЗК	1M to 100M	0.5, 1, 2, 5, 10	50				
						1K to 500M	1, 2, 5, 10	100				
						1K to 2G	1, 2, 5, 10	200				
						100 to 100K	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
	RNX-1	2.5	1.8	1.25	4К	1M to 100M	0.5, 1, 2, 5, 10	50				
						1K to 500M	1, 2, 5, 10	100				
RNX100						1K to 2G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
	RNX-1-1/4	3.0	2.16	1.5	5K	1K to 500M	1, 2, 5, 10	100				
RNX125						1K to 2G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
RNX150	RNX-1-1/2	4.0	2.88	2.0	6K	1K to 500M	1, 2, 5, 10	100				
						1K to 2G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive ⁽⁴⁾				
RNX200	RNX-2	5.0	3.6	2.5	8K	1K to 500M	1, 2, 5, 10	100				
						1K to 2G	1, 2, 5, 10	200				
						100 to 1M	1, 2, 5, 10	Non-inductive ⁽⁴⁾				

Notes

Notes
 All resistance values are calibrated at 100 V_{DC}. Calibration at other voltages available.
 Part marking: Print marked - DALE, model, value, tolerance, TCR, date code (model and date omitted on RNX-1/4)
 Special preconditioning (power aging, temperature cycling etc.) to customer specifications

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 Non-helixed resistors can be supplied for critical high frequency applications (non-inductive)

 Increase wattage by 25 % for 0.032" (0.813 mm) diameter leads
 Continuous working voltage shall be √P x R or maximum working voltage, whichever is less.
 (a) For resistance values above and below these listed places contact up.

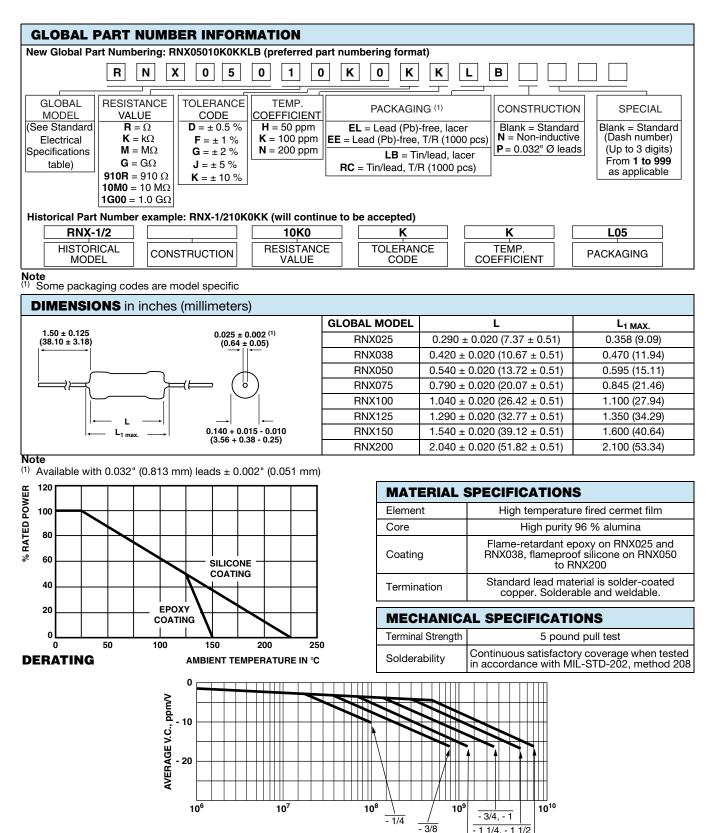
- ⁽³⁾ For resistance values above and below those listed please contact us
- ⁽⁴⁾ Non-inductive ± 200 ppm/°C TCR only

TECHNICAL SPECIFICATIONS												
PARAMETER	UNIT	RNX025	RNX038	RNX050	RNX075	RNX100	RNX125	RNX150	RNX200			
Insulation Resistance	Ω	Ω $\geq 10^{11}$										
Category Temperature Range	°C											

* Pb containing terminations are not RoHS compliant, exemptions may apply

Vishay Dale





VOLTAGE COEFFICIENT

- 1 1/4, - 1 1/2

- 2 **RESISTANCE** (Ω)

- 1/2



Vishay

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